Math 34A Winter 2020
Quiz #2b

No calculators

PRINT NAME Jillian Arriola

PERM NUMBER
3229598

Put your answer in the box provided. **TA:** ☐ Garo ☑ Trevor ☐ Sam **Time:** ☑ 8am ☐ 5pm ☐ 6pm ☐ 7pm

1. Find the (x, y) coordinates of the point of intersection between:
   - the line connecting the points $(x, y) = (-3, 1)$ and $(5, 5)$, and
   - the line connecting the points $(x, y) = (-1, 4)$ and $(4, 4)$.

$y_2 - y = m(x_2 - x)$

$(x, y) =$ $(3, 4)$

$\frac{y_2 - y_1}{x_2 - x_1} = \frac{5-1}{5+3} = \frac{4}{8} = \frac{1}{2}$

$\frac{4-4}{4+1} = \frac{0}{5} = 0$

$5 = \frac{1}{2}(5) + b$

$\frac{10}{2} = \frac{5}{2} + b$

$b = \frac{5}{2}$

$4 = 0(4) + b$

$b = 4$

$y = 4$

$y = \frac{1}{2}x + \frac{5}{2}$

$4 = \frac{1}{2}x + \frac{5}{2}$

$\frac{2}{1} \cdot \frac{3}{2} = (\frac{1}{2}x)\frac{2}{1}$

$x = 3$

Math 34A Winter 2020
Quiz #2b

No calculators

Elizabeth Martinez Escobar
PRINT NAME

PERM NUMBER
8121949

Put your answer in the box provided.

TA: ☐ Garo ☒ Trevor ☐ Sam

Time: ☒ 8am ☐ 6pm ☐ 5pm ☐ 7pm

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1. Find the (x, y) coordinates of the point of intersection between:
   - the line connecting the points $(x, y) = (\overset{x}{-3}, \overset{y}{1})$ and $(\overset{x_1}{5}, \overset{y_1}{5})$, and
   - the line connecting the points $(x, y) = (\overset{x}{-1}, \overset{y}{4})$ and $(\overset{x_1}{4}, \overset{y_1}{4})$.

$(x, y) =$ **(3, 4)**

- $y - y_1 = m(x - x_1)$
  $1 - 5 = m(-3 - 5)$
  $-4 = m(-8)$
  $\frac{-4}{-8} = \frac{-8m}{-8} \rightarrow m = \frac{1}{2}$

  $y = mx + b$
  $1 = \frac{1}{2}(-3) + b$
  $\frac{3}{2} + \frac{2}{2} = -\frac{3}{2} + b$
  $\frac{5}{2} = b \rightarrow$

  $y = \frac{1}{2}x + \frac{5}{2}$

  $\frac{1}{2}x + \frac{5}{2} = \frac{6}{2} - \frac{5}{2} = \frac{3}{2}$
  $-\frac{5}{2}$
  $\frac{2}{1}\cdot\frac{1}{2}x = \frac{3}{2}\cdot\frac{2}{1} = \frac{6}{2}$
  $x = 3$
  $y = \frac{1}{2}(3) + \frac{5}{2}$
  $\frac{3}{2} + \frac{5}{2} = \frac{8}{2} = 4$

- $y - y_1 = m(x - x_1)$
  $y - 4 = m(-1 - 4) =$
  $0 = m(-5)$
  $\frac{0}{-5} = \frac{-5m}{-5} = m = 0$

  $y = mx + b$
  $y = (0)(1) + b$
  $y = 0 + b$
  $b = 4$

  $y = 4$

Math 34A Winter 2020
Quiz #2b

No calculators

Juliana Marie De Leon
PRINT NAME

PERM NUMBER
8989048

Put your answer in the box provided.

TA: ☐ Garo ☑ Trevor ☐ Sam **Time:** ☑ 8am ☐ 5pm ☐ 6pm ☐ 7pm

1. Find the (x, y) coordinates of the point of intersection between:

   - the line connecting the points $(x, y) = (-3, 1)$ and $(5, 5)$, and
   - the line connecting the points $(x, y) = (-1, 4)$ and $(4, 4)$.

$(x, y) =$ $(3, 4)$

$\frac{5-1}{5+3} = \frac{4}{8} = \frac{1}{2}$

$y = \frac{1}{2}x + b$

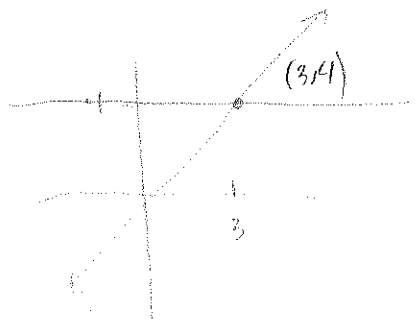
$5 = \frac{1}{2}(5) + b$

$5 = 2.5 + b \rightarrow b = 2.5$ → $y = \frac{1}{2}x + 2.5$

$\frac{4-4}{4+1} \rightarrow \frac{0}{5} \rightarrow m = 0 \rightarrow y = 4$

$y = 4$

$y = \frac{1}{2}x + 2.5$



$4 = \frac{1}{2}x + 2.5$

$1.5 = \frac{1}{2}x$

$x = 3 \rightarrow (3, 4)$

Math 34A Winter 2020
Quiz #2b

No calculators

Yujany Sarabia
PRINT NAME

PERM NUMBER
9412354

Put your answer in the box provided.

TA: ☐ Garo ☑ Trevor ☐ Sam **Time:** ☑ 8am ☐ 5pm ☐ 6pm ☐ 7pm

---

1. Find the (x, y) coordinates of the point of intersection between:
   - the line connecting the points $(x, y) = (\overset{x_1}{-3}, \overset{y_1}{1})$ and $(\overset{x_2}{5}, \overset{y_2}{5})$, and
   - the line connecting the points $(x, y) = (\overset{x_1}{-1}, \overset{y_1}{4})$ and $(\overset{x_2}{4}, \overset{y_2}{4})$.

$y - y_1 = m(x - x_0)$ $m = \frac{5-1}{5+3} = \frac{4}{5}$ $m = 5$ $(x, y) =$ **(5, 5)**

$y - 5 = 2(x - 5) + 5$
$+5$
$y = 2(x-5) + 5$

$2(x-5)+5 = (x-4)+4$

$2x - 10 + 5 = x - 4 + 4$

$2x - 10 + 5 = x$

$2x - 5 = x$
$-2x \quad -2x$

$\frac{-5}{-1} = \frac{-x}{-1}$

$x = 5$

$y - y_1 = m(x - x_0)$ $m = \frac{4-4}{4+1} = \frac{0}{5} = 0$

$\frac{y-5}{2} = \frac{2(x-5)}{2}$

$y - 4 = (x - 4)$
$+4 \qquad +4$

$y = (x-4) + 4$

$y - 4 = x - 4$
$+4 \quad +4$

$y + 0 = x$

$5 + \frac{y-5}{2} = x - 5 + 5$

$x = \frac{y-5}{2} + 5$

$2 \cdot \frac{y-5}{2} = 2(y-5)$

$y + 5 = 2y - 10 + 5$

$y = 2y - 5$
$-2y \quad -2y$

$\frac{-y}{-1} = \frac{-5}{-1}$

$y = 5$

$\frac{y-5}{2} + 5 = y + 0$
$-5 \qquad -5$

$2 \cdot \frac{y-5}{2} = y - 5 \cdot 2$

Math 34A Winter 2020
Quiz #2b

No calculators

Anisha Reimert
PRINT NAME

PERM NUMBER
9709205

Put your answer in the box provided.

TA: ☐ Garo ☐ Trevor ☒ Sam **Time:** ☒ 8am ☐ 6pm ☐ 5pm ☐ 7pm

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1. Find the (x, y) coordinates of the point of intersection between:

   - the line connecting the points $(x, y) = (-3, 1)$ and $(5, 5)$, and
   - the line connecting the points $(x, y) = (-1, 4)$ and $(4, 4)$.

$y - y_1 = m(x - x_1)$

$\frac{5-1}{5+3} = \frac{4}{8} = \frac{1}{2}$

$-\frac{5}{2} + \frac{5}{2}\frac{15}{2} = \frac{10}{2}$ 5

$(x, y) =$ (18, 4)

$y - 5 = \frac{1}{2}(x - 5)$

$+5$

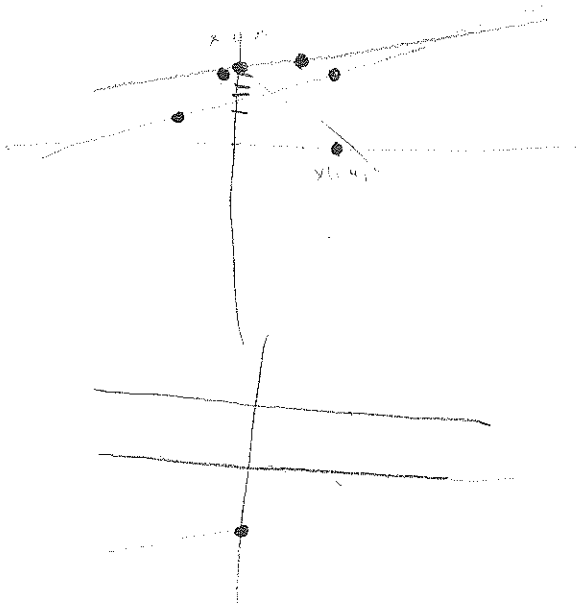
$y = \frac{1}{2}x - \frac{5}{2}$

$y = \frac{18}{2} - 5$

$y = 9 - 5 = 4$

$\frac{4-4}{4+1} = \frac{0}{5} = 0$ $\quad y - 4 = 0(x - 4)$

$y = 4$



$4 = \frac{1}{2}x - 5$

$+5 \qquad +5$

$2 \cdot 9 = \frac{x}{2} \cdot 2$

$x = 18$

Math 34A Winter 2020
Quiz #2b

No calculators

Jerelyn Garcia
PRINT NAME

PERM NUMBER
9315417

Put your answer in the box provided. **TA:** ☐ Garo ■ Trevor ☐ Sam **Time:** ■ 8am ☐ 5pm ☐ 6pm ☐ 7pm

1. Find the (x, y) coordinates of the point of intersection between:
   - the line connecting the points $(x, y) = (-3, 1)$ and $(5, 5)$, and
   - the line connecting the points $(x, y) = (-1, 4)$ and $(4, 4)$.

$(x, y) =$ $\left(3, \frac{32}{8}\right)$

$(-3,1)\ (5,5)$

$m = \frac{5-1}{5-(-3)} = \frac{4}{8}$

$y - y_1 = m(x - x_1)$

$y - 5 = \frac{4}{8}(x - 5)$

$y - 5 = \frac{4}{8}x - \frac{20}{8}$

$+5 \qquad +40/8$

$y = \frac{4}{8}x + \frac{20}{8}$

$(-1,4)\ (4,4)$

$m = \frac{4-4}{4-(-1)} = \frac{0}{5} = 0$

$y - y_1 = m(x - x_1)$

$y - 4 = m(x - 4)$

$y - 4 = 0x - 0$

$+4 \qquad +4$

$y = 0x + 4$

$y = 4$

plug in to

$y - 5 = \frac{1}{2}(x - 5)$

$y - 5 = \frac{1}{2}x - \frac{5}{2}$

$+5 \qquad +10/2$

$y = \frac{1}{2}x + \frac{5}{2}$

$4 = \frac{1}{2}x + \frac{5}{2}$

$-5/2 \qquad -5/2$

$\frac{3}{2} = \frac{1}{2}x$

$x = 3$ ✓

$4 = \frac{4}{8}x + \frac{20}{8}$

$-20/8 \qquad -20/8$

$\frac{12}{8} = \frac{4}{8}x$

$\frac{12}{4} = \frac{4x}{4}$

$x = 3$

$\frac{32}{8} - \frac{20}{8} = \frac{12}{8}$

$y = \frac{4}{8}(3) + \frac{20}{8}$

$= \frac{12}{8} + \frac{20}{8}$

$y = \frac{32}{8}$

Math 34A Winter 2020
Quiz #2b

No calculators

Sarahi Perez-Aguilar
PRINT NAME

PERM NUMBER
9694647

Put your answer in the box provided.

TA: ☐ Garo ☒ Trevor ☐ Sam

Time: ☒ 8am ☐ 5pm ☐ 6pm ☐ 7pm

1. Find the (x, y) coordinates of the point of intersection between:

   - the line connecting the points $(x, y) = (-3, 1)$ and $(5, 5)$, and
   - the line connecting the points $(x, y) = (-1, 4)$ and $(4, 4)$.

$\frac{y_2 - y_1}{x_2 - x_1} = \frac{5-1}{5-(-3)} = \frac{4}{8}$

$\frac{4}{5}$

$(x, y) = \boxed{(8, 5)}$

Math 34A Winter 2020
Quiz #2b

No calculators

Denise Cabrera
PRINT NAME

PERM NUMBER
9976917

Put your answer in the box provided. **TA:** ☐ Garo ☒ Trevor ☐ Sam **Time:** ☒ 8am ☐ 5pm ☐ 6pm ☐ 7pm

---

1. Find the (x, y) coordinates of the point of intersection between:
   - the line connecting the points $(x, y) = (-3, 1)$ and $(5, 5)$, and
   - the line connecting the points $(x, y) = (-1, 4)$ and $(4, 4)$.

$(x, y) =$ $\left(\frac{3}{2}, 4\right)$

$m = \frac{y_2 - y_1}{x_2 - x_1}$ A: $\frac{5-1}{5-(-3)} = \frac{4}{8} = \frac{1}{2}$

B: $\frac{4-4}{4-(-1)} = \frac{0}{5}$

$y = \frac{1}{2}x + b$

$5 = \frac{1}{2}(5) + b$

$5 = \frac{5}{2} + b$

$5 - \frac{5}{2} = b$

$\frac{10}{2} - \frac{5}{2} = b$

$\frac{5}{2} = b$

$y = \frac{1}{2}x + \frac{5}{2}$

$\frac{1}{2} \cdot 5 = \frac{5}{2}$

$y = \frac{0}{5}x + b$

$4 = \frac{0}{5}(4) + b$

$4 = 0 + b$

$4 = b$

$y = \frac{0}{5}x + 4$

Math 34A Winter 2020
Quiz #2b

No calculators

PRINT NAME Ash Phommahsa

PERM NUMBER 8159782

Put your answer in the box provided.

TA: ☐ Garo ☒ Trevor ☐ Sam **Time:** ☒ 8am ☐ 6pm ☐ 5pm ☐ 7pm

1. Find the (x, y) coordinates of the point of intersection between:
   - the line connecting the points $(x, y) = (-3, 1)$ and $(5, 5)$, and
   - the line connecting the points $(x, y) = (-1, 4)$ and $(4, 4)$.

$(x, y) =$ $(3, 4)$

$(-3,1)$ $(5,5)$

$m = \frac{5-1}{5-(-3)} = \frac{4}{8} = \frac{1}{2}$

$y = mx + b$

$1 = \left(\frac{1}{2}\right)(-3) + b$

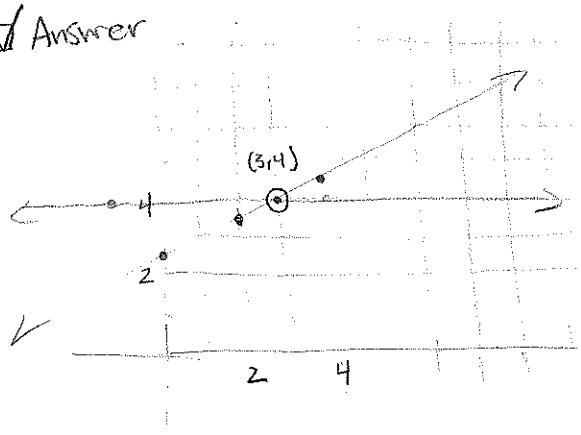
$1 = \frac{-3}{2} + b$

$+\frac{3}{2} \quad +\frac{3}{2}$

$\frac{5}{2} = b$

$y = \frac{1}{2}x + \frac{5}{2}$

☑ Answer



$(-1,4)$ $(4,4)$

$m = \frac{4-4}{4-(-1)} = \frac{0}{5} = 0$

$y = 4$

$\frac{1}{2}x + \frac{5}{2} = 4$

$-\frac{5}{2} \quad -\frac{5}{2}$

$2 \cdot \left(\frac{1}{2}x\right) = \left(\frac{3}{2}\right) 2$

$x = 3$

$y = 4$

so $(3, 4)$ intersection

Math 34A Winter 2020
Quiz #2b

No calculators

Samantha Monroe
PRINT NAME

PERM NUMBER
9550039

Put your answer in the box provided. **TA:** ☐ Garo ☒ Trevor ☐ Sam **Time:** ☒ 8am ☐ 6pm ☐ 5pm ☐ 7pm

---

1. Find the (x, y) coordinates of the point of intersection between:
   - the line connecting the points $(x, y) = (-3, 1)$ and $(5, 5)$, and
   - the line connecting the points $(x, y) = (-1, 4)$ and $(4, 4)$.

$(x, y) =$ $(1.25, 4)$

$\frac{y_2 - y_1}{x_2 - x_1}$ & $y = mx + b$

x_1 y_1 x_2 y_2
$(-3, 1)$ $(5, 5)$

$\frac{5-1}{5-(-3)} = \frac{4}{8} = \frac{1}{2}$

$y = \frac{1}{2}x + b$

$5 = \frac{1}{2}(5) + b$

$y = \frac{1}{2}x + 1.5$

$y = \frac{1}{2}x + .5$

$1 = \frac{1}{2}(-3) + b$

$1 = 1.5 + b$

$\frac{-1.5}{.5}$

$y = 4$

$4 = \frac{1}{2}(x) + .5$

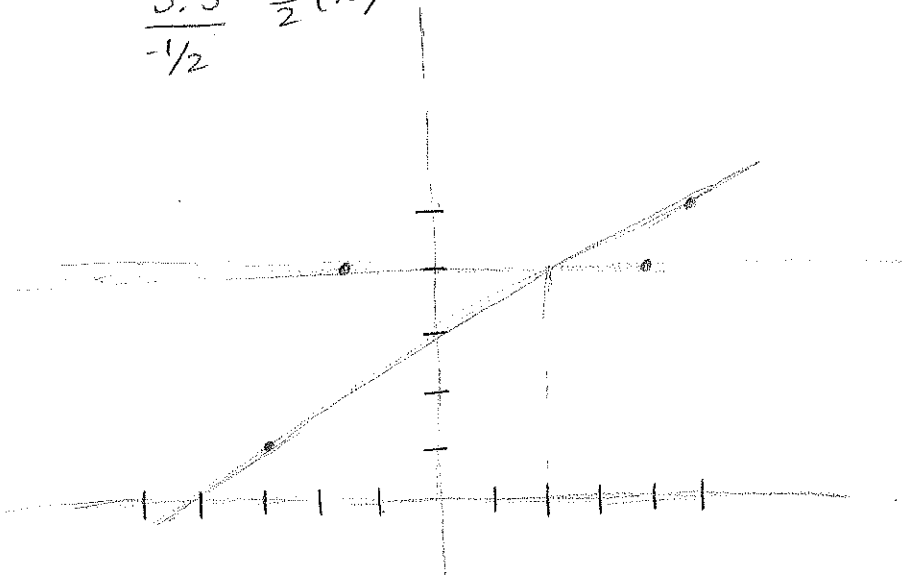
$-.5$

$\frac{3.5}{-1/2} = \frac{-1}{2}(x)$

$\frac{y_2 - y_1}{x_2 - x_1}$

$(-1, 4)$ $(4, 4)$

$\frac{4-4}{4-(-1)} = \frac{0}{5} = 0$



Math 34A Winter 2020
Quiz #2b

No calculators

Aubree Kaul
PRINT NAME

PERM NUMBER
7964547

Put your answer in the box provided.

TA: ☐ Garo ☒ Trevor ☐ Sam **Time:** ☒ 8am ☐ 5pm ☐ 6pm ☐ 7pm

---

1. Find the (x, y) coordinates of the point of intersection between:

   - the line connecting the points $(x, y) = (-3, 1)$ and $(5, 5)$, and
   - the line connecting the points $(x, y) = (-1, 4)$ and $(4, 4)$.

$\frac{5-1}{5+3} = \frac{4}{8} = \frac{1}{2}$

$y = (\frac{1}{2})x + b \Rightarrow 1 = \frac{1}{2}(3) + b$

$1 = 1.5 + b$

$+.5 \quad +.5$

$-.5 = b \Rightarrow y = (\frac{1}{2})x - 0.5$

$(x, y) =$ 2.25, 4

$\frac{1}{2} \cdot \frac{3}{1} = \frac{3}{2} = 1.5$

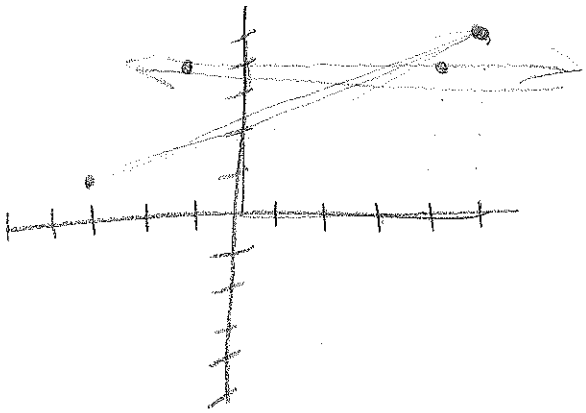
$\frac{4-4}{4+1} = \frac{0}{5} = 0$

$y = 0x + b$

$4 = 0(4) + b$

$4 = 0 + b$

$b = 0$



$4 = \frac{1}{2}(x) - .5$

$+.5 \quad +.5$

$\frac{4.5}{2}$

Math 34A Winter 2020
Quiz #2b

No calculators

Claire Sellick
PRINT NAME

PERM NUMBER
7967748

Put your answer in the box provided.

TA: ☐ Garo ☒ Trevor ☐ Sam **Time:** ☐ 8am ☐ 6pm ☒ 5pm ☐ 7pm

---

1. Find the (x, y) coordinates of the point of intersection between:
   - the line connecting the points $(x, y) = (-3, 1)$ and $(5, 5)$, and
   - the line connecting the points $(x, y) = (-1, 4)$ and $(4, 4)$.

$(x, y) =$ $(3, 4)$

Line 1: $(-3, 1)$, $(5, 5)$

$m = \frac{\Delta y}{\Delta x} = \frac{5-1}{5-(-3)} = \frac{4}{8} = \frac{1}{2}$

~~$y = \frac{1}{x}$~~ $y = \frac{1}{2}x + b$

$5 = \frac{1}{2}(5) + b$

$5 = 2.5 + b$

$b = 2.5$

Line 1: $y = \frac{1}{2}x + \frac{5}{2}$

Line 2: $(-1, 4)$, $(4, 4)$

$m = \frac{\Delta y}{\Delta x} = \frac{4-4}{4-(-1)} = 0$

$y = 0(x) + b$

$y = b$

$y = 4$

Intersection: $y = 4$, $y = \frac{1}{2}x + \frac{5}{2}$

$4 = \frac{1}{2}x + \frac{5}{2}$

$\frac{1}{2}x = \frac{3}{2}$

$x = 3$ and $y = 4$

Math 34A Winter 2020
Quiz #2b

No calculators

Zach Winner
PRINT NAME

PERM NUMBER
8442659

Put your answer in the box provided.

TA: ☐ Garo ☑ Trevor ☐ Sam

Time: ☐ 8am ☐ 6pm ☑ 5pm ☐ 7pm

1. Find the (x, y) coordinates of the point of intersection between:

   - the line connecting the points $(x, y) = (-3, 1)$ and $(5, 5)$, and
   - the line connecting the points $(x, y) = (-1, 4)$ and $(4, 4)$.

$\frac{4}{8}$ $\frac{1}{2}M$ $0 = M$

$(x, y) =$ $(3, 4)$

$4 = \frac{1}{2}(x) + 2.5$

$1.5 / \frac{1}{2} = 3$ $x = 3$

$-2 = 1.5$
$-1 = 2$
$0 = 2.5$
$1 = 3$
$2 = 3.5$
$3 = 4$

Math 34A Winter 2020
Quiz #2b

No calculators

Casie Trotter
PRINT NAME

PERM NUMBER
9789702

Put your answer in the box provided.

TA: ☐ Garo ☒ Trevor ☐ Sam

Time: ☐ 8am ☐ 6pm ☒ 5pm ☐ 7pm

$\frac{1}{1} \cdot \frac{2}{2} = \frac{2}{2}$

1. Find the (x, y) coordinates of the point of intersection between:

   1 • the line connecting the points $(x, y) = (-3, 1)$ and $(5, 5)$, and

   2 • the line connecting the points $(x, y) = (-1, 4)$ and $(4, 4)$.

$\text{Slope}_1 = \frac{5-1}{5+3} = \frac{4}{8} = \frac{1}{2}$

$(x, y) =$ (3, 4)

$\text{Slope}_2 = \frac{4-4}{4+1} = \frac{0}{5} = 0$

1. $y - 1 = 1/2(x+3)$

$y - 1 = 1/2x + 3/2$

$y = 1/2x + 5/2$

$4 = 1/2x + 5/2$

$\frac{3}{2} = \frac{1}{2}x$

$x = 3$

2. $y - 4 = 0(x+1)$

$y = 4$

$\frac{4}{1} \cdot \frac{2}{2} = \frac{8}{2} - \frac{5}{2} = \frac{3}{2}$

$\frac{3}{2} \cdot \frac{2}{1} = 3$

Math 34A Winter 2020
Quiz #2b

No calculators

Isabel Degreen
PRINT NAME

PERM NUMBER
7776370

Put your answer in the box provided. **TA:** ☐ Garo ☒ Trevor ☐ Sam **Time:** ☐ 8am ☒ 5pm ☐ 6pm ☐ 7pm

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1. Find the (x, y) coordinates of the point of intersection between:

   - the line connecting the points $(x, y) = (-3, 1)$ and $(5, 5)$, and
   - the line connecting the points $(x, y) = (-1, 4)$ and $(4, 4)$.

$\frac{5-1}{5+3} = \frac{4}{8} = \frac{1}{2}$ $y = mx + b$

$(x, y) =$ (3, 4)

$5 = \frac{1}{2}(5) + b$

$5 = 2.5 + b$

$2.5 = b$

$\frac{4-4}{4+1}$ $\frac{0}{5}$

$1 = \frac{1}{2}(-3) + b$

$1 = -1$

2.5

$y = 4$

$1 = y = \frac{1}{2}x + 2.5$

$\frac{1}{2}x + 2.5 = 4$

-2.5 -2.5

$\frac{1}{2}x = 1.5$

$x = 3$

Math 34A Winter 2020
Quiz #2b

No calculators

Megan Graper
PRINT NAME

PERM NUMBER
9661133

Put your answer in the box provided.

TA: ☐ Garo ☒ Trevor ☐ Sam

Time: ☐ 8am ☐ 6pm ☒ 5pm ☐ 7pm

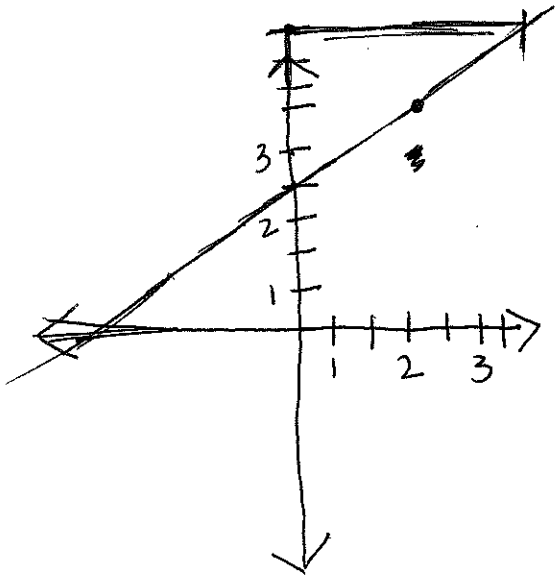
1. Find the (x, y) coordinates of the point of intersection between:
   - the line connecting the points $(x, y) = (-3, 1)$ and $(5, 5)$, and
   - the line connecting the points $(x, y) = (-1, 4)$ and $(4, 4)$.

$y - y_0 = m(x - x_0)$
$y = mx + b$

$(x, y) =$ (4, 5)

$\left(\frac{5-1}{5+3}\right) = \frac{4}{8} = \frac{1}{2}$

$\left(\frac{4-4}{4+1}\right) = \frac{0}{5} = 0$



$y = \frac{1}{2}x + b$

$1 = \frac{1}{2}(-3) + b$

$1 = -\frac{3}{2} + b$

$2.5 = b$

$y = \frac{1}{2}x + 2.5$

$y = 0x + b$

$4 = 4 + b$

$b = 0$

$4 = -1 + b$

$5 = b$

$y = 0x + 5$

$y = 5$

Math 34A Winter 2020
Quiz #2b

No calculators

PRINT NAME Tim Lee

PERM NUMBER
6679708

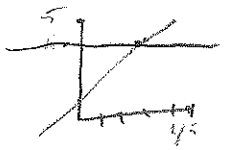
Put your answer in the box provided.

TA: ☐ Garo ☒ Trevor ☐ Sam **Time:** ☐ 8am ☐ 6pm ☒ 5pm ☐ 7pm

---

1. Find the (x, y) coordinates of the point of intersection between:

- the line connecting the points $(x, y) = (-3, 1)$ and $(5, 5)$, and
- the line connecting the points $(x, y) = (-1, 4)$ and $(4, 4)$.



A) $\frac{y_2 - y_1}{x_2 - x_1} \rightarrow \frac{5+3}{5+1} \quad \frac{8}{4} = 2$

$(x, y) =$ $(1.75, 4)$

$y = 2x + b$
$5 = 2(5) + b$
$\frac{5}{10} = b \rightarrow b = \frac{1}{2}$
$y = 2x + \frac{1}{2}$ →

$4 = 2x + \frac{1}{2}$
$3.5 = 2x$
$\frac{3.5}{2}$

$\frac{3.5}{2} = x$

B) $\frac{4+4}{4-4} \quad \frac{5}{0} = \text{undef}$

$y =$

Straight line on $y = 4$

1.75
1.75
1.50

$2(1.75) + .5$

Math 34A Winter 2020
Quiz #2b

No calculators

PRINT NAME: Omkar Hanamsagar

PERM NUMBER:

Put your answer in the box provided.

TA: ☐ Garo ☒ Trevor ☐ Sam **Time:** ☐ 8am ☐ 6pm ☒ 5pm ☐ 7pm

---

1. Find the (x, y) coordinates of the point of intersection between:

   - the line connecting the points $(x, y) = (-3, 1)$ and $(5, 5)$, and
   - the line connecting the points $(x, y) = (-1, 4)$ and $(4, 4)$.

$(x, y) =$ 3, 4

$1 = \frac{4}{8}(-3) + b$

$1 = -\frac{12}{8} + b$

$\frac{8}{8} + \frac{12}{8} = b$

$\frac{20}{8} = b$

$\frac{5}{2} = b$

$\frac{0}{5} =$

$y = \frac{4}{8}x + \frac{5}{2}$

$\frac{12}{8} + \frac{20}{8} = \frac{22}{8}$

$\frac{8}{8} + \frac{12}{8}$

$\frac{4}{8}$

$\frac{20}{8} = b$

$\frac{0}{5} = 0$

$4 = b$

$y = 4$

$4 = \frac{4}{8}x + \frac{5}{2}$

$\frac{8}{2} - \frac{5}{2} = \left(\frac{3}{2}\right)\frac{8}{4} = \frac{4}{8}x$

$y = \frac{12}{8} + \frac{5}{2}$ $\quad \frac{24}{8} = x$

$y = \frac{12}{8} + \frac{20}{8}$ $\quad \frac{22}{8} =$ $\quad x = 3$

$4 = \frac{4}{8}x + \frac{5}{2}$

$\frac{8}{2} - \frac{5}{2} = \frac{4}{8}x$

$\frac{24}{8}\left(\frac{8}{4}\right)\left(\frac{3}{2}\right) = \frac{4}{8}x$

$x = 3$

Math 34A Winter 2020
Quiz #2b

No calculators

Andrew Lugo
PRINT NAME

PERM NUMBER
8237836

Put your answer in the box provided.

TA: ☐ Garo ☐ Sam ☑ Trevor **Time:** ☐ 8am ☐ 5pm ☐ 6pm ☐ 7pm

---

1. Find the (x, y) coordinates of the point of intersection between:
   - the line connecting the points $(x, y) = (-3, 1)$ and $(5, 5)$, and
   - the line connecting the points $(x, y) = (-1, 4)$ and $(4, 4)$.

$(x, y) =$ $(3, 4)$

$\frac{4}{8} = \frac{1}{2}$

$5 = \left(\frac{1}{2}\right)5 + b$

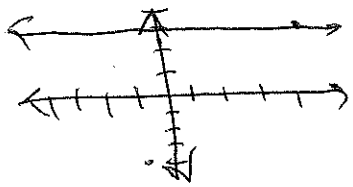
$5 = 2.5 + b$

$b = 2.5$

$y = \frac{1}{2}x + 2.5$

$y = 4$

$y = 4$



$(3, 4)$

$\frac{4-4}{4+1} = \frac{0}{5}$

$5 - 1 = \frac{4}{8} = \frac{1}{2}$

$1 = \left(\frac{1}{2}\right)-3 + b$

$1 = -1.5 + b$

$+1$

$b = 2.5$

$4 = 1/2x + 2.5$

$1.5 = 1/2x$ $\frac{1}{2}x$

$x = 3$

$1.5 = 1/2x$ 0.5a

$x = 3$

$\frac{1}{2}$

1.5
2.5

3.5

Math 34A Winter 2020
Quiz #2b

No calculators

PRINT NAME Jessica Swaine

PERM NUMBER 7892334

Put your answer in the box provided. **TA:** ☐ Garo ☐ Sam ☑ Trevor **Time:** ☐ 8am ☑ 5pm ☐ 6pm ☐ 7pm

---

1. Find the (x, y) coordinates of the point of intersection between:

   - the line connecting the points $(x, y) = (-3, 1)$ and $(5, 5)$, and
   - the line connecting the points $(x, y) = (-1, 4)$ and $(4, 4)$.

$(x, y) =$ $(3, 4)$

$\frac{1-5}{-3-5} = \frac{-4}{-8}$ $\frac{y_2-y_1}{x_2-x_1}$ $\frac{5-1}{5+3} = \frac{4}{8} = \frac{1}{2}$

$\frac{1}{2}$

$y = \frac{1}{2}x + b$ $y = \frac{1}{2}x + b$

$1 = \frac{1}{2}(-3) + b$ $5 = \frac{1}{2}(5) + b$

$1 = -\frac{3}{2} + b$ $5 = \frac{5}{2} + b$

$\frac{2}{2} + \frac{3}{2} = b$ $\frac{10}{2} = b$

$\frac{5}{2} = b$ $5 = b$

$y = \frac{1}{2}x + \frac{5}{2}$ $y = \frac{1}{2}x + 5$

$\frac{4-4}{4+1} = \frac{0}{5}$ = undefined

$\frac{4-4}{-1-4} = \frac{0}{-5}$

$y = 0x + b$

$4 = 0(4) + b$

$b = 4$

$y = 4$

$y = 0x + b$

$4 = 0(-1) + b$

$y = b$

$y = 4$

$\frac{1}{2}x + 5 = 4$

$\frac{1}{2}x = -1$

$x = -2$

check

$\frac{y_2-y_1}{x_2-x_1} \rightarrow \frac{5-1}{5+3} = \frac{4}{8} = \frac{1}{2}$

$y = \frac{1}{2}x + b$

$1 = \frac{1}{2}(-3) + b$

$1 = -\frac{3}{2} + b$

$\frac{2}{2} + \frac{3}{2} = \frac{5}{2} = b$

$\frac{5-4}{5+3} = \frac{1}{8}$

$y = \frac{1}{2}(5) + b$

$y = \frac{5}{2} + b$

$5 = \frac{5}{2} + b$

$\frac{10}{2} - \frac{5}{2} = \frac{5}{2}$

$y = \frac{1}{2}x + \frac{5}{2}$

$4 = \frac{1}{2}x + \frac{5}{2}$

$4 - \frac{5}{2} = \frac{1}{2}x$

$\frac{8}{2} - \frac{5}{2} = \frac{1}{2}x$

$\frac{3}{2} = \frac{1}{2}x$

$\frac{6}{2} = x$

$x = 3$

$\frac{4-4}{4+1} = \frac{0}{5} = 0$

$y = 0x + b$

$4 = 0(4) + b$

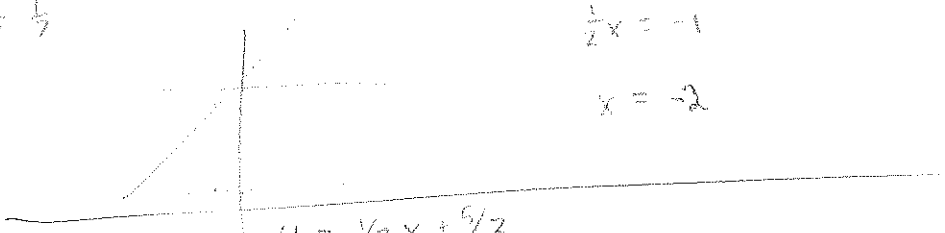
$b = 4$

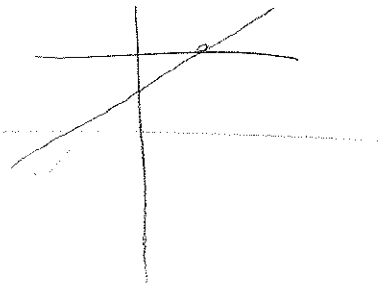
$y = 4$

$2\left(\frac{3}{2} = \frac{1}{2}x\right)$

$\frac{6}{2} = x$

$x = 3$





Math 34A Winter 2020
Quiz #2b

No calculators

Geneva Dunn
PRINT NAME

PERM NUMBER
8461519

Put your answer in the box provided. **TA:** ☐ Garo ☑ Trevor ☐ Sam **Time:** ☐ 8am ☑ 5pm ☐ 6pm ☐ 7pm

---

1. Find the (x, y) coordinates of the point of intersection between:
   - the line connecting the points $(x, y) = (-3, 1)$ and $(5, 5)$, and
   - the line connecting the points $(x, y) = (-1, 4)$ and $(4, 4)$.

$(x, y) =$ $(1, 4)$

$(-3, 1)$ $(5, 5)$

$5 - 1 = m(5 + 3)$

$4 = m(8)$ $m = \frac{4}{8}$ $m = \frac{1}{2}$

$5 = \frac{1}{2}(5) + b$

$5 = 2.5 + b$

$-2.5 \quad -2.5$

$3.5 = b$

line 1: $y = \frac{1}{2}x + 3.5$

line 2: $y = 4$

$4 = \frac{1}{2}x + 3.5$

$-3.5 \quad -3.5$

$0.5 = \frac{1}{2}x$

$1 = x$

$(-1, 4)$ $(4, 4)$

$4 - 4 = m(4 - -1)$

$0 = m(5)$

$m = 0$ No slope, horizontal

$4 = 0(x) + b$

$4 = b$

$y = 0x + 4$

Math 34A Winter 2020
Quiz #2b

No calculators

PRINT NAME: Keanna Lam

PERM NUMBER: 7847205

Put your answer in the box provided.

TA: ☐ Garo ☑ Trevor ☐ Sam **Time:** ☐ 8am ☐ 6pm ☑ 5pm ☐ 7pm

---

1. Find the (x, y) coordinates of the point of intersection between:

   - the line connecting the points $(x, y) = (-3, 1)$ and $(5, 5)$, and
   - the line connecting the points $(x, y) = (-1, 4)$ and $(4, 4)$.

$(x, y) =$ $(3, 4)$

$m = \frac{(5-1)}{(5-(-3))} = \frac{4}{8} = \frac{1}{2}$

$y = \frac{1}{2}x + b$

$5 = \frac{1}{2}(5) + b$

$5 = 2.5 + b$

$2.5 = b$

$y_1 = \frac{1}{2}x + 2.5$

$m = \frac{4-4}{(4-(-1))} = \frac{0}{5} = 0$

$y = 0x + b$

$4 = 0(4) + b$

$4 = b$

$y_2 = 4$

$4 = \frac{1}{2}x + 2.5$

$1.5 = \frac{1}{2}x$

$3 = x$

$y = \frac{1}{2}(3) + 2.5$

$y = \frac{3}{2} + 2.5$

$y = 1.5 + 2.5$

$y = 4$

Math 34A Winter 2020
Quiz #2b

No calculators

Justin Kern
PRINT NAME

PERM NUMBER
7884059

Put your answer in the box provided.

TA: ☐ Garo ☐ Sam ☑ Trevor **Time:** ☐ 8am ☑ 5pm ☐ 6pm ☐ 7pm

---

1. Find the (x, y) coordinates of the point of intersection between:

   - the line connecting the points $(x, y) = (-3, 1)$ and $(5, 5)$, and
   - the line connecting the points $(x, y) = (-1, 4)$ and $(4, 4)$.

$(x, y) =$ 3, 4

$y - y_1 = m(x - x_1)$

$\frac{5-1}{5+3} = \frac{4}{8} = \frac{1}{2}$

$\frac{4-4}{4+1} = \frac{0}{4} = 0$

$y = 4$

$\frac{1}{2} \cdot 3 \quad 1.5 + 2.5 = 4$

$y - 4 = 0(x - 4)$

$y - 4 = 0$

$y = 4$

$y = \frac{1}{2}x + b$

$1 = \frac{-3}{2} + b$

$2.5 = b$

$y = \frac{1}{2}x + 2.5$

$y - 5 = \frac{1}{2}(x - 5)$

$y = \frac{1}{2}x + 2.5 + 5$

$\frac{1}{2}x + 2.5 = y$

$\frac{1}{2}x + 2.5 = 4 - 2.5$

$4 = \frac{1}{2}x + \frac{5}{2}$

$\frac{8}{2} - \frac{5}{2} = \frac{3}{2} = \frac{1}{2}x$

$3 = x$

$0 = x$

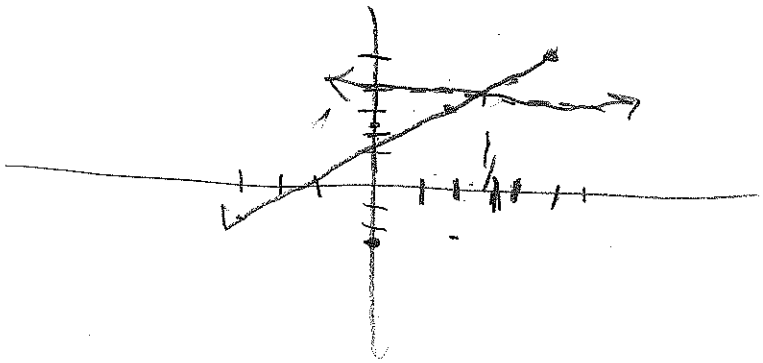
3, 4

$2 - \frac{1}{2}x = 1.5 - 2$

$x = 3$

$5 - \frac{1}{2}$

$1 + 1.5$



Math 34A Winter 2020
Quiz #2b

No calculators

PRINT NAME Ana Turm

PERM NUMBER
8402349

Put your answer in the box provided.

TA: ☐ Garo ☒ Trevor ☐ Sam **Time:** ☐ 8am ☒ 6pm ☐ 5pm ☐ 7pm

---

1. Find the (x, y) coordinates of the point of intersection between:
   - the line connecting the points $(x, y) = (-3, 1)$ and $(5, 5)$, and
   - the line connecting the points $(x, y) = (-1, 4)$ and $(4, 4)$.

$(x, y) =$ $(3, 4)$

$\frac{5-1}{5+3}$ $\frac{4}{8} = 1/2$ $y = \frac{1}{2}x + \frac{5}{2}$

$\frac{4-4}{4+1}$ 0

$y = 4$

$y = 1/2x + b$

$1 = \frac{1}{2}(-3) + b$

$1 = \frac{-3}{2} + b$

$\frac{2}{2} + \frac{3}{2}$

$\frac{5}{2} = b$

$4 = \frac{1}{2}x + \frac{5}{2}$

$\frac{4}{1} - \frac{5}{2}$

$\frac{8}{2} - \frac{5}{2}$

$\frac{3}{2} = \frac{1}{2}x$

$\frac{2}{1}\frac{3}{2}$

$\frac{6}{2}$ $x = 3$

Math 34A Winter 2020
Quiz #2b

No calculators

PRINT NAME Marvin Salamanca

PERM NUMBER 9706342

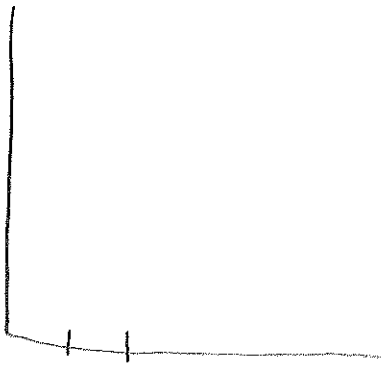
Put your answer in the box provided.

TA: ☐ Garo ☑ Trevor ☐ Sam **Time:** ☐ 8am ☑ 6pm ☐ 5pm ☐ 7pm

---

1. Find the (x, y) coordinates of the point of intersection between:
   - the line connecting the points $(x, y) = (-3, 1)$ and $(5, 5)$, and
   - the line connecting the points $(x, y) = (-1, 4)$ and $(4, 4)$.

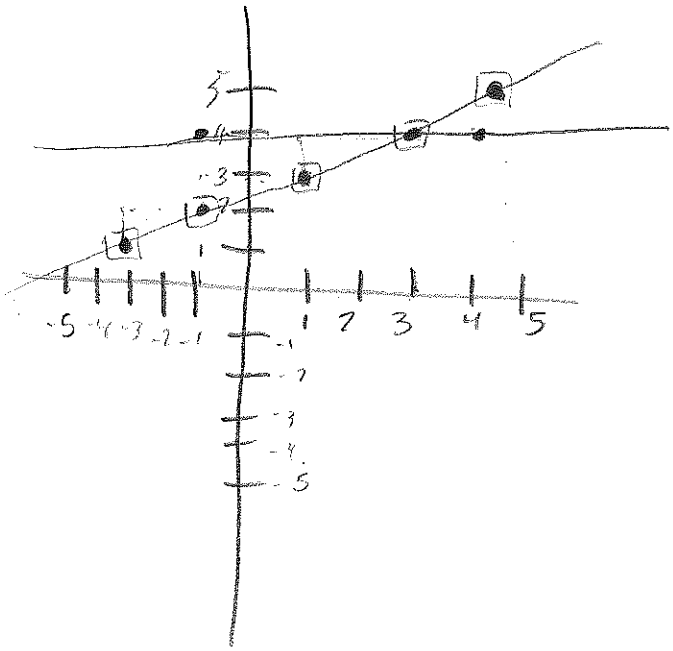
$(x, y) =$ $(3, 4)$



Slope of ☐

$\frac{5-1}{5+3} = \frac{4}{8} = \frac{1}{2}$

$\frac{4-4}{4+1} = \frac{0}{5} = 0$ Slope of ●



Math 34A Winter 2020
Quiz #2b

No calculators

Shangai Lyu
PRINT NAME

PERM NUMBER
3572468

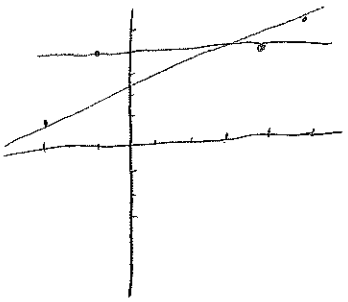
Put your answer in the box provided.

TA: ☐ Garo ☒ Trevor ☐ Sam

Time: ☐ 8am ☒ 6pm ☐ 5pm ☐ 7pm

1. Find the (x, y) coordinates of the point of intersection between:

   - the line connecting the points $(x, y) = (-3, 1)$ and $(5, 5)$, and
   - the line connecting the points $(x, y) = (-1, 4)$ and $(4, 4)$.



Slope 1: $\frac{5-1}{5-(-3)} = \frac{4}{8} = \frac{1}{2}$ $(x, y) =$ **(3, 4)**

$y - 1 = \frac{1}{2}(x+3)$

$y = \frac{1}{2}x + \frac{3}{2} + 1$

$y = \frac{1}{2}x + \frac{5}{2}$

Slope 2: $\frac{4-4}{4-(-1)} = 0$

$y - 4 = 0(x-4)$

$y = 4$

$\frac{1}{2}x + \frac{5}{2} = 4$

$x + 5 = 8$

$x = 3$

Math 34A Winter 2020
Quiz #2b

No calculators

PRINT NAME Aile Anguiano

PERM NUMBER 7811735

Put your answer in the box provided.

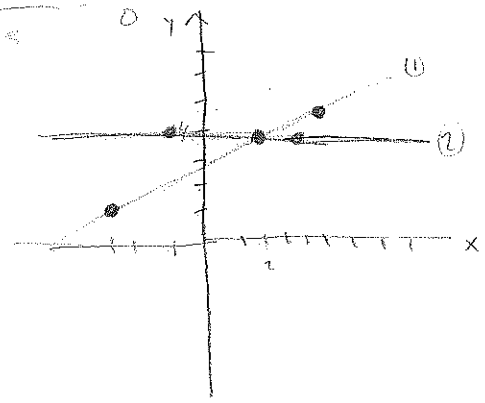
TA: ☐ Garo ☒ Trevor ☐ Sam **Time:** ☐ 8am ☒ 6pm ☐ 5pm ☐ 7pm

---

1. Find the (x, y) coordinates of the point of intersection between:
   - the line connecting the points $(x, y) = (\overset{x_1}{-3}, \overset{y_1}{1})$ and $(\overset{x_2}{5}, \overset{y_2}{5})$, and
   - the line connecting the points $(x, y) = (\overset{x_1}{-1}, \overset{y_1}{4})$ and $(\overset{x_2}{4}, \overset{y_2}{4})$.

(1) slope $= \frac{y_2 - y_1}{x_2 - x_1} = \frac{5-1}{5-(-3)} = \frac{4}{8} = \frac{1}{2}$ $(x, y) =$ (2, 4)

(2) slope $= \frac{y_2 - y_1}{x_2 - x_1} = \frac{4-4}{4-(-1)} = \frac{0}{5}$ = 0 slope



Math 34A Winter 2020
Quiz #2b

No calculators

PRINT NAME ISABELLE SALIGUMBA

PERM NUMBER: 9405796

Put your answer in the box provided.

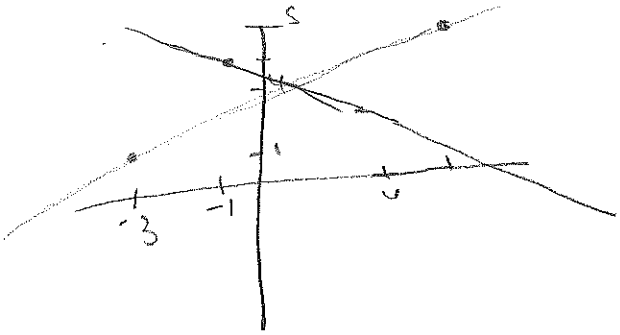
TA: ☐ Garo ☑ Trevor ☐ Sam **Time:** ☐ 8am ☑ 6pm ☐ 5pm ☐ 7pm

---

1. Find the (x, y) coordinates of the point of intersection between:

   - the line connecting the points $(x, y) = (-3, 1)$ and $(5, 5)$, and
   - the line connecting the points $(x, y) = (-1, 4)$ and $(4, 4)$.

$(x, y) =$ $(3, 3)$



$y_2 - y_1 = m x_2 - x_1$

$5 - 1 = m\,5 + 3$

$4 = m\,8$

$m = \frac{1}{2}$

$y = \frac{1}{2}x + b$

$5 = \frac{1}{2}(5) + b$

$5 = 3.5 + b$

$b = 1.5$

$y = \frac{1}{2}x + 1.5$

$5.0 - 3.5 = 1.5$

$4 - 4 = m(4 - -1)$

$\frac{0}{5} = m(5)$

$m = 0$

$y = x + b$

$4 = 4 + b$

$b = 0$

$y = x + 0$

$x + 0 = \frac{1}{2}x + 1.5$

$x = \frac{1}{2}x + 1.5$

$-\frac{1}{2}x = -1.5$

$-1/2 \quad -1/2$

$x = 3$

$y = \frac{1}{2}(3) + 1.5$

$y = 1.5 + 1.5$

$y = 3$

Math 34A Winter 2020
Quiz #2b

No calculators

DJ Scott
PRINT NAME

PERM NUMBER
8052102

Put your answer in the box provided. **TA:** ☐ Garo ☒ Trevor ☐ Sam **Time:** ☐ 8am ☒ 6pm ☐ 5pm ☐ 7pm

---

1. Find the (x, y) coordinates of the point of intersection between:

   A • the line connecting the points $(x, y) = (-3, 1)$ and $(5, 5)$, and

   B • the line connecting the points $(x, y) = (-1, 4)$ and $(4, 4)$.

$(x, y) = \frac{5}{2}, \frac{15}{4}$

$\frac{5-1}{5+3} = \frac{4}{8} = \frac{1}{2}$

$y = \frac{1}{2}x +$

$5 = \frac{1}{2}(5) + b$

$\frac{10}{2} - 5 = \frac{5}{2} + b - 5$

$\frac{5}{2} = b$

A: $y = \frac{1}{2}x + \frac{5}{2}$

$\frac{1}{2}x + \frac{5}{2} = 0x + 4$

$\frac{1}{2}x + \frac{5}{2} = 4 = \frac{8}{2}$

$-\frac{5}{2} \quad -\frac{5}{2}$

$\frac{2}{1} \cdot \frac{1}{2}x = \frac{3}{2} \cdot \frac{2}{1}$

$x = \frac{5}{2}$

$y = \frac{1}{2}\left(\frac{5}{2}\right) + \frac{5}{2}$

$y = \frac{5}{4} + \frac{5}{2} \cdot \frac{2}{2}$

$y = \frac{5}{4} + \frac{10}{4}$

$y = \frac{15}{4}$

$y =$

$\frac{4-4}{4-1} = \frac{0}{5} = 0$

$y = 0x + b$

$4 = 0(4) + b$

$4 = 0 + b$

$4 = b$

B: $y = 0x + 4$

By $x = 4$

Math 34A Winter 2020
Quiz #2b

No calculators

Omar Tawil
PRINT NAME

PERM NUMBER
9480724

Put your answer in the box provided. TA: ☐ Garo ☑ Trevor ☐ Sam Time: ☐ 8am ☑ 6pm ☐ 5pm ☐ 7pm

1. Find the (x, y) coordinates of the point of intersection between:
   - the line connecting the points $(x, y) = (-3, 1)$ and $(5, 5)$, and
   - the line connecting the points $(x, y) = (-1, 4)$ and $(4, 4)$.

$m = \frac{y_2 - y_1}{x_2 - x_1} = \frac{5-1}{5-(-3)} = \frac{4}{8} = \boxed{\frac{1}{2}}$

$= \frac{4-4}{4+1} = \frac{0}{5} = \boxed{0}$

$(x, y) =$ $\boxed{(3, 4)}$

$y = mx + b$ $\quad \begin{cases} y = \frac{1}{2}x + \frac{5}{2} \\ y = 4 \end{cases}$

$y = \frac{1}{2}x + b$

$5 = \frac{1}{2}5 + b$

$-2.5 \quad -2.5$

$5 = 2.5 + b$

$\boxed{b = 2.5}$ $\quad 2\frac{1}{2}$

$y = mx + b$

$y = 0x + b$

$\boxed{4 = b}$

$\frac{1}{2}x + \frac{5}{2} = 4$

$\frac{-5}{2} \quad \frac{-5}{2}$

$\frac{1}{2}x = \frac{4}{1} - \frac{5}{2}$

$\frac{1}{2}x = \frac{8}{2} - \frac{5}{2}$

$\frac{2}{1} \cdot \frac{1}{2}x = \frac{3}{2} \cdot \frac{2}{1}$

$x = \frac{6}{2}$

$\boxed{x = 3}$

plug-into any O.G equation.

$\frac{1}{2}x + \frac{5}{2} = 4$

$\frac{1}{2}x = \frac{3}{2}$

Math 34A Winter 2020
Quiz #2b

No calculators

Alexa Lopez
PRINT NAME

PERM NUMBER
8251738

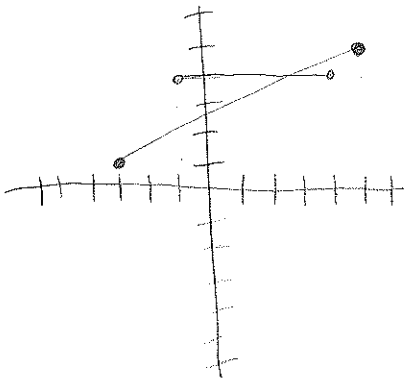
Put your answer in the box provided.

TA: ☐ Garo ☑ Trevor ☐ Sam **Time:** ☐ 8am ☑ 6pm ☐ 5pm ☐ 7pm

---

1. Find the (x, y) coordinates of the point of intersection between:
   - the line connecting the points $(x, y) = (-3, 1)$ and $(5, 5)$, and
   - the line connecting the points $(x, y) = (-1, 4)$ and $(4, 4)$.

$(x, y) =$ $(3, 4)$



$(-3,1)$ & $(5,5)$
$x_1\ y_1$ $x_2\ y_2$

$\text{slope} = \frac{5-1}{5+(+3)} = \frac{4}{8} = \frac{1}{2}$

$y - 1 = \frac{1}{2}(x + (+3))$

$y - 1 = \frac{1}{2}x + \frac{3}{2} + \frac{8}{2}$

$+1 \quad +1$

$y = \frac{1}{2}x + \frac{5}{2}$

$(-1,4)$ & $(4,4)$
$x_1\ y_1$ $x_2\ y_2$

$\text{slope} = \frac{4-4}{4+(1)} = \frac{0}{5} = 0$

slope $= 0$
$b = 4$.

$y = 4$

equal to each other to find intersect

$-\frac{5}{2} \quad 4 = \frac{1}{2}x + \frac{5}{2} \quad -\frac{5}{2}$

$\frac{8}{2} - \frac{5}{2} = \frac{1}{2}x$

$2\left(\frac{3}{2}\right) = \left(\frac{1}{2}x\right)2$

$x = 3$

Math 34A Winter 2020
Quiz #2b

No calculators

Melissa Maldonado
PRINT NAME

PERM NUMBER
8106502

Put your answer in the box provided.

TA: ☐ Garo ☒ Trevor ☐ Sam **Time:** ☐ 8am ☒ 6pm ☐ 5pm ☐ 7pm

---

1. Find the (x, y) coordinates of the point of intersection between:

   - the line connecting the points $(x, y) = (-3, 1)$ and $(5, 5)$, and
   - the line connecting the points $(x, y) = (-1, 4)$ and $(4, 4)$.

$(x, y) =$ $(3, 4)$

$(-3,1)(5,5)$

$(y - y_1) = m(x - x_1)$

$\frac{5-1}{5+3} = \frac{4}{8} = \frac{1}{2}$

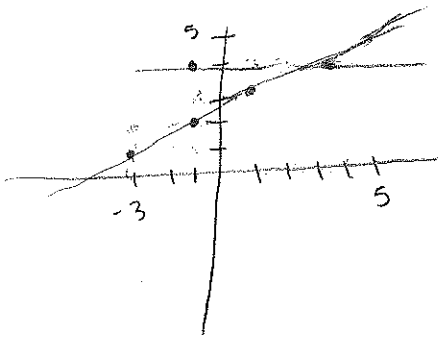
$\frac{1}{2}\left(5\right) = \frac{5}{2}$

$y - 5 = \frac{1}{2}(x - 5)$

$y - 5 = \frac{1}{2}x - \frac{5}{2}$

$(-1,4)$ $(4,4)$

$\frac{4-4}{4+1} = \frac{0}{5}$



Math 34A Winter 2020
Quiz #2b

No calculators

Samantar Essa
PRINT NAME

PERM NUMBER
9047599

Put your answer in the box provided.

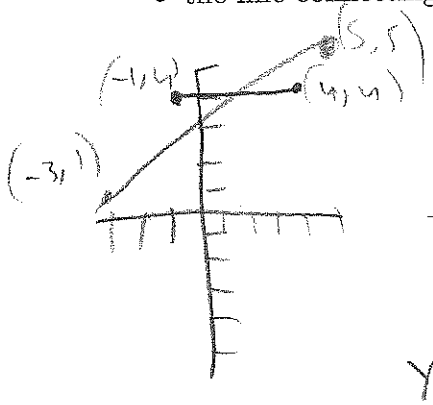
TA: ☐ Garo ☒ Trevor ☐ Sam

Time: ☐ 8am ☒ 6pm ☐ 5pm ☐ 7pm

---

1. Find the (x, y) coordinates of the point of intersection between:

   - the line connecting the points $(x, y) = (-3, 1)$ and $(5, 5)$, and
   - the line connecting the points $(x, y) = (-1, 4)$ and $(4, 4)$.



$(x, y) =$ 2 , 4

$\frac{5-1}{5+3} = \frac{4}{8} = \frac{1}{2} = m$

$Y = 5 - \frac{1}{2}(X+5)$

$Y = -\frac{10}{2} - \frac{1}{2}X - \frac{5}{2}$

$Y = -\frac{1}{2}X - \frac{5}{2}$

$Y = 4 - 0(X+1)$

$Y = 4$

$4 = -\frac{1}{2}X - \frac{5}{2}$

$\frac{8}{2} + \frac{5}{2} = -\frac{1}{2}X$

$-2 \cdot \frac{13}{2} = -\frac{1}{2}X \cdot -2$

$-X = -13$

$-9 = X$

Math 34A Winter 2020
Quiz #2b

No calculators

Brandon Jordan
PRINT NAME

PERM NUMBER
7883283

Put your answer in the box provided.

TA: ☐ Garo ☑ Trevor ☐ Sam **Time:** ☐ 8am ☑ 6pm ☐ 5pm ☐ 7pm

---

1. Find the (x, y) coordinates of the point of intersection between:
   1. the line connecting the points $(x, y) = (-3, 1)$ and $(5, 5)$, and
   2. the line connecting the points $(x, y) = (-1, 4)$ and $(4, 4)$.

(x_1, y_1) (x_2, y_2)

#1. slope: $\frac{5-1}{5-(-3)} \rightarrow \frac{4}{8}$

$(x, y) =$ **(3, 4)**

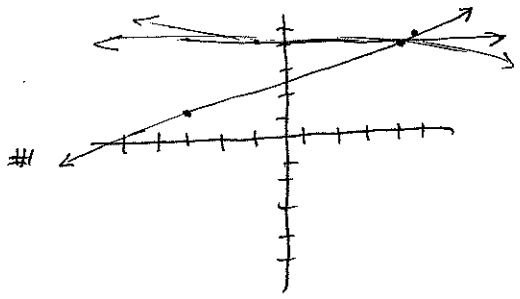
$y - 1 = \frac{4}{8}(x + 3)$

$y - 1 = \frac{4}{8}(x$

$y = 1 + \frac{1}{2}\frac{4}{8}x + \frac{12}{8}$

$y = \frac{4}{8}x + \frac{12}{8} + \frac{8}{8}$

$y = \frac{4}{8}x + \frac{20}{8}$



#2. slope: $\frac{4-4}{4-(-1)} = \frac{0}{5}$ No slope

$y - 4 = 0(x - 4)$

$y - 4 =$

$y = 4$

32 | 96

32
32
64
32
96

32
20
12

$1 - \frac{4}{4} = \frac{4}{8}x + \frac{20}{8} \neq 4 \rightarrow = \frac{4}{8}x + \frac{20}{8} - \frac{32}{8}$

$= \frac{1}{8}x - \frac{12}{8}$

12
8
96
22

$\frac{4}{8} \cdot \frac{12}{8} = \frac{1}{8}x$

$3 = x$

Math 34A Winter 2020
Quiz #2b

No calculators

Vy Pham
PRINT NAME

PERM NUMBER
7923949

Put your answer in the box provided. **TA:** ☐ Garo ☑ Trevor ☐ Sam **Time:** ☐ 8am ☑ 6pm ☐ 5pm ☐ 7pm

---

1. Find the (x, y) coordinates of the point of intersection between:

   - the line connecting the points $(x, y) = (-3, 1)$ and $(5, 5)$, and
   - the line connecting the points $(x, y) = (-1, 4)$ and $(4, 4)$.

$(x, y) =$ $(3, 4)$

Line 1: $(-3,1)$ $(5,5)$

$\frac{3-1}{5+3} = \frac{2}{8} = \frac{1}{4}$

$y = 1/4x + b$

$3 = 1/4(5) + b$

$3 = 5/4 + b$

$3 - \frac{5}{4} = b$

$\frac{12}{4} - \frac{5}{4} = b = \frac{7}{4}$

$y = \frac{1}{4}x + \frac{7}{4}$

$4 = \frac{1}{4}x + \frac{7}{4}$

$4 \quad \frac{16}{4} - \frac{7}{4} = \frac{1}{4}x$

$x + 4 = \frac{1}{4}x + \frac{7}{4}$

$x + 4 - \frac{7}{4} = \frac{1}{4}x$

$x + \frac{16}{4} - \frac{7}{4} = \frac{1}{4}x$

$x + \frac{9}{4} = \frac{1}{4}x$

$-1 \qquad -1$

$\frac{9}{4} = \frac{1}{4}x - \frac{4}{4}x$

$\frac{9}{4} = \frac{-3}{4}x$

$\frac{9}{4} \cdot \frac{4}{-3} = x = \frac{36}{12} = \frac{12}{12} = \frac{3}{1} = 3$

$\frac{9}{4} = \frac{1}{4}x$

$9 = x$

$(-3,1)(5,5)$

$\frac{5-1}{5+3} = \frac{4}{8} = \frac{1}{2}$

$y = \frac{1}{2}x + b$

$1 = \frac{1}{2}(-3) + b$

$1 = -\frac{3}{2} + b$

$1 + \frac{3}{2} = b$

$\frac{2}{2} + \frac{3}{2} = b$

$\frac{5}{2} = b$

$(-3,1)(5,5)$

$y = \frac{1}{2}x + b$

$5 = \frac{1}{2}(5) + b$

$5 = \frac{5}{2} + b$

$5 - \frac{5}{2} = b$

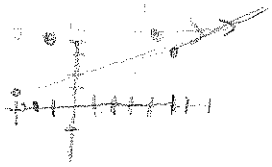
$\frac{10}{2} - \frac{5}{2} = b$

$\frac{5}{2}$

Line 2: $(-1,4)$ $(4,4)$

$y = x + b$

$y = x + 4 \quad y = 4$



$y = \frac{1}{2}x + \frac{5}{2}$

$4 = \frac{1}{2}x + \frac{5}{2}$ $\frac{5}{2}$

$4 - \frac{5}{2} = \frac{1}{2}x$

$\frac{8}{2} - \frac{5}{2} = \frac{1}{2}x$

$\frac{3}{2} = \frac{1}{2}x$

$3 = x$

$x = 3$

$\frac{5}{2} - \frac{b}{2}$

$-\frac{3}{2} = \frac{1}{2}x$

$x = \frac{-6}{2} = -3$

$\frac{5}{2} - 4 = \frac{1}{2}x$

$\frac{10}{4} - \frac{16}{4} = \frac{1}{2}x$

$y = \frac{1}{2}x + 5/2$

$4 = \frac{1}{2}x + 5/2$

Math 34A Winter 2020
Quiz #2b

No calculators

Kirsten Venegas
PRINT NAME

PERM NUMBER
8043036

Put your answer in the box provided. **TA:** ☐ Garo ☐ Sam ☒ Trevor **Time:** ☐ 8am ☐ 5pm ☐ 6pm ☒ 7pm

1. Find the (x, y) coordinates of the point of intersection between:
   - the line connecting the points $(x, y) = (-3, 1)$ and $(5, 5)$, and
   - the line connecting the points $(x, y) = (-1, 4)$ and $(4, 4)$.

$(x, y) =$ $(3, 4)$

$\frac{y_2 - y_1}{x_2 - x_1}$ $\quad \frac{5-1}{5+(-3)} = \frac{4}{8} = \frac{1}{2}$

$y = mx + b$ $\quad y = \frac{1}{2}x + 2.5$

$5 = \frac{1}{2}(5) + b$ $\quad y = 0.5x + 2.5$

$5 = 5/2 + b$

$5 = 2.5 + b$

$-2.5 \quad -2.5$

$2.5 = b$

$\frac{4-4}{4+(-1)} = \frac{0}{5} = 0$

$y = 0x + b$

$4 = 0(4) + b$

$4 = b$

$y = 4$

x	0	1	2	3	4	5	6	7	8	9	10
y				4							

x	0	1	2	3	4	5	6	7	8
y	4	4	4	4	4	4	4	4	4

$4 = 0.5x + 2.5$

$-2.5 \quad -2.5$

$\frac{1.5}{0.5} = \frac{0.5x}{0.5}$

$3 = x$

$0.5(3) + 2.5$

$1.5 + 2.5$

4

Math 34A Winter 2020
Quiz #2b

No calculators

Gaby Carrasco
PRINT NAME

PERM NUMBER
9401894

Put your answer in the box provided.

TA: ☐ Garo ☑ Trevor ☐ Sam **Time:** ☐ 8am ☐ 6pm ☐ 5pm ☑ 7pm

---

1. Find the (x, y) coordinates of the point of intersection between:
   - the line connecting the points $(x, y) = (-3, 1)$ and $(5, 5)$, and
   - the line connecting the points $(x, y) = (-1, 4)$ and $(4, 4)$.

$(x, y) =$ $(3, 4)$

$(-3,1)$ $(5,5)$

$\frac{y_2 - y_1}{x_2 - x_1} = \frac{(5-1)}{(5-(-3))} = \frac{4}{8} = \frac{1}{2}$

$y = \frac{1}{2}x + b \rightarrow y = \frac{1}{2}x + 2.5$

$5 = \frac{1}{2}(5) + b$

$5 = 2.5 + b$

$-2.5 \quad -2.5$

$2.5 = b$

$(-1,4)$ $(4,4)$

$\frac{y_2 - y_1}{x_2 - x_1} = \frac{4-4}{4-(-1)} = \frac{0}{5} = 0$

$y = 0(x) + b$

$4 = 0(4) + b$

0

$4 = b$

$y = 0x + 4$

$\frac{1}{2}x + 2.5 = 0x + 4$

$-2.5 \quad -2.5$

$0x \qquad = 1.5$

$2 \cdot \frac{1}{2}x = 1.5 \cdot 2$

$x = 3$

$\frac{1}{2}(3) + 2.5 =$

$1.5 + 2.5 = 4$

$y = 4$

$0(3) + 4$

$0 + 4 = 4$

Math 34A Winter 2020
Quiz #2b

No calculators

Adam Ernster
PRINT NAME

PERM NUMBER
7344609

Put your answer in the box provided.

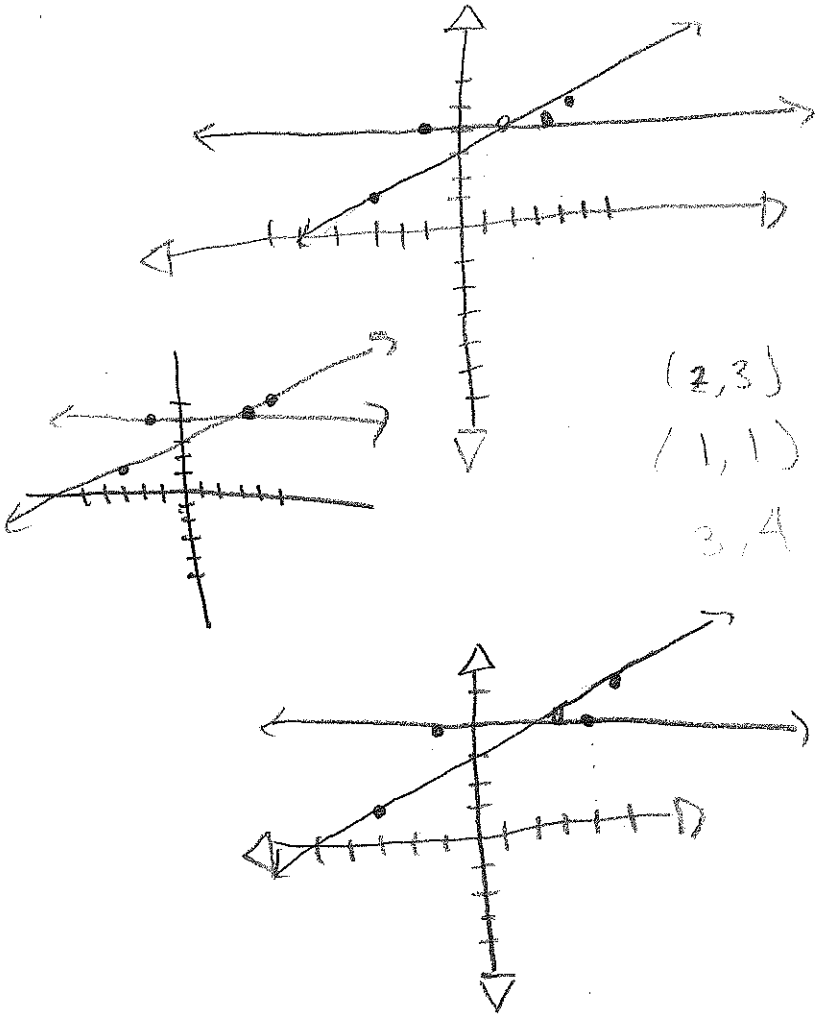
TA: ☐ Garo ☒ Trevor ☐ Sam

Time: ☐ 8am ☐ 6pm ☐ 5pm ☒ 7pm

1. Find the (x, y) coordinates of the point of intersection between:

   - the line connecting the points $(x, y) = (-3, 1)$ and $(5, 5)$, and
   - the line connecting the points $(x, y) = (-1, 4)$ and $(4, 4)$.

$(x, y) =$ (3, 4)



Math 34A Winter 2020
Quiz #2b

No calculators

PRINT NAME Daniel Ortiz

PERM NUMBER 8359069

Put your answer in the box provided.

TA: ☐ Garo ☒ Trevor ☐ Sam **Time:** ☐ 8am ☐ 6pm ☐ 5pm ☒ 7pm

---

1. Find the (x, y) coordinates of the point of intersection between:

   - the line connecting the points $(x, y) = (-3, 1)$ and $(5, 5)$, and
   - the line connecting the points $(x, y) = (-1, 4)$ and $(4, 4)$.

$(x, y) =$ $(3, 4)$

$y = 1 + \frac{1}{2}(x - -3)$

$\frac{1}{2}x + \frac{3}{2} + 1$

$y = \frac{1}{2}x + \frac{5}{2}$

$y = \frac{1}{2}x + \frac{5}{2}$

$4 + \frac{5}{2}$

$8 - 5 = 2(\frac{3}{2}) - (\frac{1}{2}x)2$

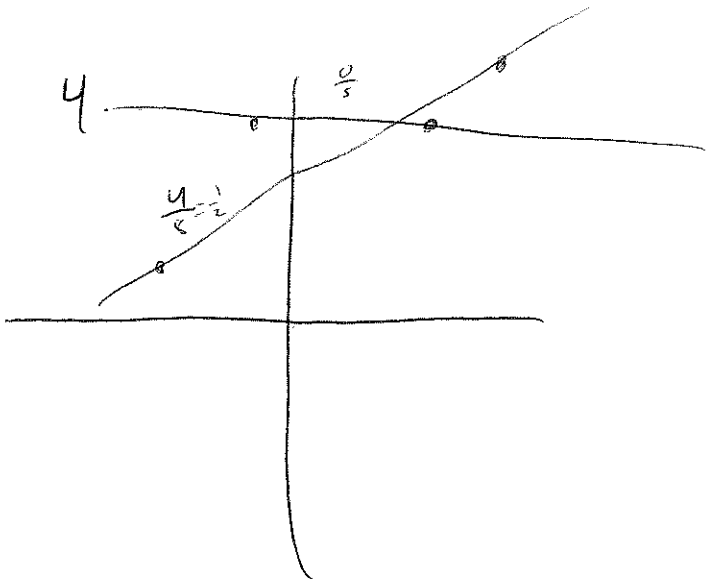
$x = 3$

$y = 4$

$y = 4 + 0(x - -1)$

$y = 4$

$x - 3 = 0(\frac{1}{2}) = 3 \; 11 = 4$



Math 34A Winter 2020
Quiz #2b

No calculators

Louann Herve
PRINT NAME

PERM NUMBER
8291064

Put your answer in the box provided.

TA: ☐ Garo ☒ Trevor ☐ Sam **Time:** ☐ 8am ☐ 5pm ☐ 6pm ☒ 7pm

1. Find the (x, y) coordinates of the point of intersection between:
   - the line connecting the points $(x, y) = (-3, 1)$ and $(5, 5)$, and
   - the line connecting the points $(x, y) = (-1, 4)$ and $(4, 4)$.

$\frac{5-1}{5-(-3)} = \frac{4}{8} = \frac{1}{4}$

$(x, y) =$ (1, 4)

$y = \frac{1}{4}x + b \qquad 5 = \frac{1}{4}(5) + b$

$y = \frac{1}{4}x + \frac{15}{4} \qquad \frac{15}{4} = b$

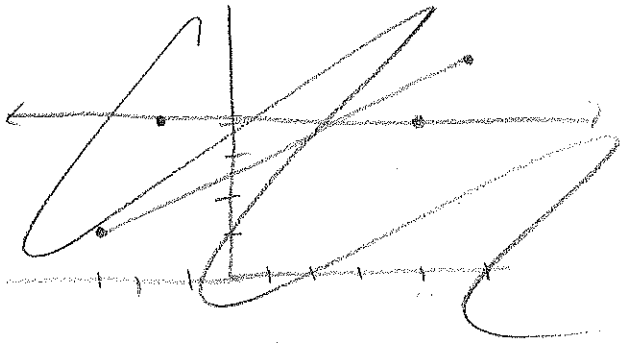
$\frac{4-4}{4-(-1)} = \frac{0}{5} = 0$

$y = 0x + b$

$4 = 0(4) + b$

$4 = b$

$y = 4$



$\frac{1}{4}x + \frac{15}{4} = 4$

$\frac{1}{4}x = \frac{1}{4}$

$x = 1$

Math 34A Winter 2020
Quiz #2b

No calculators

PRINT NAME Taylor Mori

PERM NUMBER 8236176

Put your answer in the box provided.

TA: ☐ Garo ☐ Sam ☑ Trevor **Time:** ☐ 8am ☐ 5pm ☐ 6pm ☑ 7pm

---

1. Find the (x, y) coordinates of the point of intersection between:
   - the line connecting the points $(x, y) = (-3, 1)$ and $(5, 5)$, and
   - the line connecting the points $(x, y) = (-1, 4)$ and $(4, 4)$.

$(x, y) =$ (1, 3)

$\frac{5-1}{5-(-3)} = \frac{4}{2} = 2$

$\frac{4-4}{4-(-1)} : \frac{0}{5}$

$y = mx+b$

$y = 2x+b$

$1 = 2(-3)+b$

$1 = -6+b$

$7 = b$

$y = mx+b$

$y = 2x+7$

$y = mx+b$

$y = \frac{0}{5}x+b$

$4 = \frac{0}{5}(-1)+b$

$4 = -5+b$

$9 = b$

$y = \frac{0}{5}x+9$

$\frac{0}{5}x+9 = 2x+7$

$y =$

$\frac{0}{5}x+2 = 2x$

$2 = \frac{10}{5}x$

$1 = x$

Math 34A Winter 2020
Quiz #2b

No calculators

Jasmine Blevins
PRINT NAME

PERM NUMBER
6026397

Put your answer in the box provided.

TA: ☐ Garo ☒ Sam ☐ Trevor **Time:** ☐ 8am ☒ 5pm ☐ 6pm ☐ 7pm

1. Find the (x, y) coordinates of the point of intersection between:
   - the line connecting the points $(x, y) = (-3, 1)$ and $(5, 5)$, and
   - the line connecting the points $(x, y) = (-1, 4)$ and $(4, 4)$.

$(x, y) =$ $(3, 4)$

$y - y_1 = m(x - x_1)$

$\frac{5-1}{5-(-3)} = \frac{4}{8} = \frac{1}{2}$

$y = \frac{1}{2}x + b$

$y - 1 = \frac{1}{2}(x - (-3))$

$y - 1 = \frac{1}{2}x + 1.5$

$+1 \quad +1$

$y = \frac{1}{2}x + 2.5$

$\frac{4-4}{4-(-1)} = \frac{0}{5} = 0 = m$

$y - 4 = 0(x - (-1))$

$y - 4 = 0$

$y = 4$

$y = 0x + 4$?

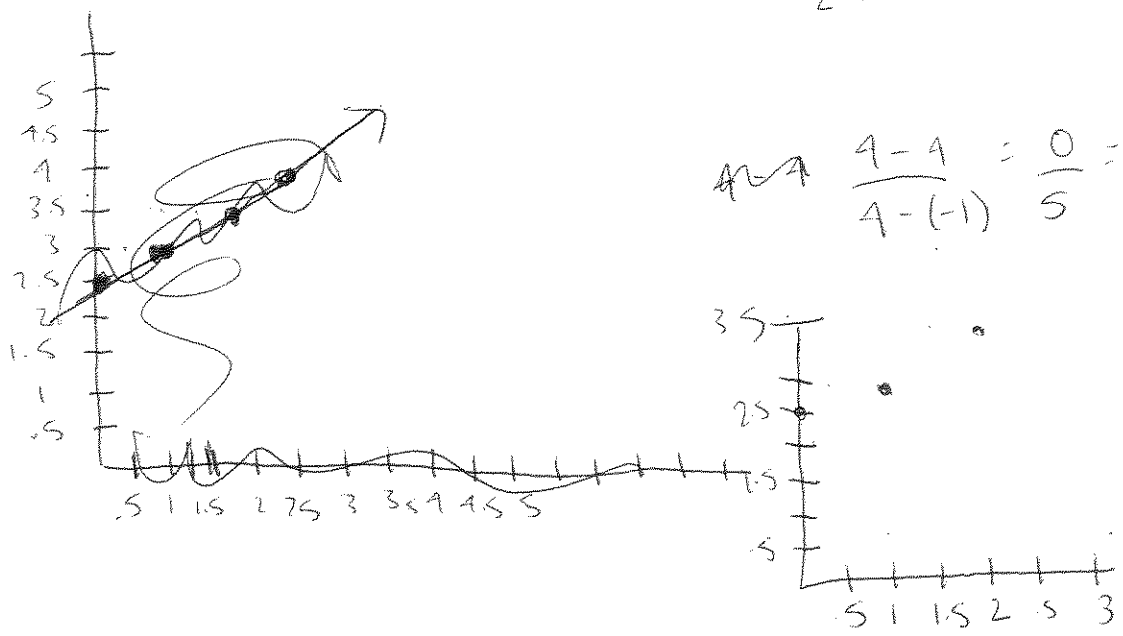
$\frac{1}{2}x + 2.5 = 4$

$-2.5 \quad -2.5$

$\frac{2}{1}\cdot\frac{1}{2}x = 1.5(2)$

$x = 3 \quad (3, 4)$

$4 = \frac{1}{2}(3) + 2.5$



$\frac{4-4}{4-(-1)} = \frac{0}{5} = 0$

Math 34A Winter 2020
Quiz #2b

No calculators

Vanessa Chen
PRINT NAME

PERM NUMBER
6838627

Put your answer in the box provided.

TA: ☐ Garo ☑ Trevor **Time:** ☐ 8am ☐ 6pm
☐ Sam ☐ 5pm ☑ 7pm

---

1. Find the (x, y) coordinates of the point of intersection between:
   1. • the line connecting the points $(x, y) = (-3, 1)$ and $(5, 5)$, and
   2. • the line connecting the points $(x, y) = (-1, 4)$ and $(4, 4)$.

$(x, y) =$ $(3, 4)$

1. Slope $\frac{y_2 - y_1}{x_2 - x_1}$

$\frac{5-1}{5+3} = \frac{4}{8} = \frac{1}{2}$

$y - y_1 = m(x - x_1)$

$y - 1 = \frac{1}{2}(x + 3)$

$y = \frac{1}{2}(x+3) + 1$

$= \frac{1}{2}x + \frac{3}{2} + 1 \to \frac{2}{2}$

$y = mx + b$

$y = \frac{1}{2}x + \frac{5}{2}$

2. Slope

$\frac{4-4}{4+1} = \frac{0}{5} = 0$

$y - y_1 = m(x - x_1)$

$y - 4 = 0(x + 1)$

$y - 4 = 0x + 0$

$+4 \quad +4$

$y = 0x + 4$

$0x + 4 = \frac{1}{2}x + \frac{5}{2}$

$-\frac{5}{2} \quad -\frac{5}{2}$

$\frac{3}{2} = \frac{\frac{1}{2}x}{\frac{1}{2}}$

$3 = x$

$y = \frac{1}{2}(3) + \frac{5}{2}$

$y = \frac{3}{2} + \frac{5}{2}$

$= \frac{8}{2}$

$= 4$

$4 - \frac{5}{2} = \frac{8}{2} - \frac{5}{2}$

$= \frac{3}{2}$

$\frac{3}{2} \cdot \frac{2}{1} = \frac{6}{2}$

Math 34A Winter 2020
Quiz #2b

No calculators

PRINT NAME: Hugo Ayala

PERM NUMBER: 3050507

Put your answer in the box provided. TA: ☐ Garo ☑ Sam ☐ Trevor Time: ☐ 8am ☑ 5pm ☐ 6pm ☐ 7pm

$\frac{y_2 - y_1}{x_2 - x_1}$

1. Find the (x, y) coordinates of the point of intersection between:
   - the line connecting the points $(x, y) = (-3, 1)$ and $(5, 5)$, and
   - the line connecting the points $(x, y) = (-1, 4)$ and $(4, 4)$.

$(x, y) = \left(\frac{1}{2}, 0\right)$

$x_1\ y_1 \quad x_2\ y_2$

$(-3, 1) \quad (5, 5)$

$\frac{5-1}{5+3} = \frac{4}{8} \quad y = \frac{1}{2}x$

$y = \frac{1}{2}(x - 5)$

$8 + \frac{1}{2}(x + 8)$

$y = 5 + \frac{1}{2}(x + 5)$

$x_1\ y_1 \quad x_2\ y_2$

$(-1, 4) \quad (4, 4)$

$\frac{1}{2}$

$\frac{y_2 - y_1}{x_2 - x_1} \quad \frac{4-4}{4+1} = \frac{0}{5} = 0$

$y - 4 = 0(x + 1)$

$y = 4 + 0(x + 4)$

$-4 = 0(x - 4)$

$+4 \quad (x - 4)$

Math 34A Winter 2020
Quiz #2b

No calculators

PRINT NAME Arman Bashian

PERM NUMBER 9358250

Put your answer in the box provided.

TA: ☐ Garo ☐ Trevor ☒ Sam **Time:** ☐ 8am ☐ 6pm ☒ 5pm ☐ 7pm

---

1. Find the (x, y) coordinates of the point of intersection between:
   - the line connecting the points $(x, y) = (-3, 1)$ and $(5, 5)$, and
   - the line connecting the points $(x, y) = (-1, 4)$ and $(4, 4)$.

$(x, y) =$ $(0.2, 4)$

$\frac{y_2 - y_1}{x_2 - x_1}$ $\quad y - y_1 = m(x - x_1)$

line 1) $\quad x_1, y_1 \quad (-3, 1) \qquad x_2, y_2 \quad (5, 5)$

$\frac{5-1}{5+(+3)} = \frac{4}{8} = \frac{1}{2}$

$y - 1 = \frac{1}{2}(x + 1)) \rightarrow y - 1 = \frac{1}{2}x + \frac{1}{2}$

$+1 \quad +1$

$y = \frac{1}{2}x + \frac{3}{2}$

line 2) $\quad x_1, y_1 \quad (-1, 4) \qquad x_2, y_2 \quad (4, 4)$

$\frac{4-4}{4+(+1)} = \frac{0}{4} = 0$

$y - 4 = 0(x + 1)$

$y - 4 = 0 \qquad y = 4$

$+4 \quad +4$

$\frac{1}{2}x + \frac{3}{2} = \frac{4}{1}$

$-\frac{3}{2} \quad -\frac{3}{2}$

$\frac{1}{2}x = \frac{5}{2}$

$x = 10$

Math 34A Winter 2020
Quiz #2b

No calculators

PRINT NAME Midon Harvey

PERM NUMBER 8110710

Put your answer in the box provided. TA: ☐ Garo ☐ Trevor ☐ Sam Time: ☐ 8am ☒ 5pm ☐ 6pm ☐ 7pm

1. Find the (x, y) coordinates of the point of intersection between:
   - the line connecting the points $(x, y) = (-3, 1)$ and $(5, 5)$, and
   - the line connecting the points $(x, y) = (-1, 4)$ and $(4, 4)$.

$(x, y) =$ (4, 2.7)

(-3,1) (5,5)

$\frac{5-1}{5-3} = \frac{4}{8} = \frac{1}{2}$ $m = \frac{1}{2}$

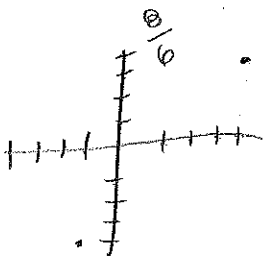
$y = \frac{1}{2}x + b$ $5 = \frac{1}{2}(5) + b$

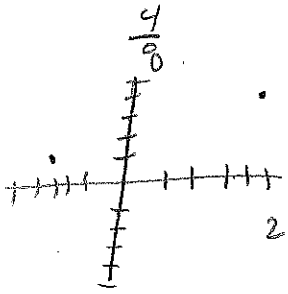
$y = \frac{1}{2}x + 2.5$ $5 = 2.5 + b$

$-2.5 \quad -2.5$

$b = 2.5$

(-1,4) (4,4)





$y = -\frac{8}{5}x + b$

$y = \frac{-8}{5}(-1) + b$

$4 = \frac{8}{5} + b$

$-\frac{8}{5} \quad -\frac{8}{5}$

$\frac{4}{1} - \frac{8}{5}$ $\frac{20}{5} - \frac{8}{5} = \frac{12}{5}$

$.5(.4) + 2.5$

$.2 + 2.5$

2.5
.2
2.7

$-\frac{8}{5} + \frac{12}{5} = \frac{20}{5}$

$y = \frac{8}{5}x + \frac{12}{5}$ $x = .4$

$y = \frac{1}{2}x + 2.5$

$\frac{16}{10} \; \frac{8}{5}x + \frac{12}{5} = \frac{1}{2}x + 2.5$ $-1/2x$

$\frac{5}{10} \; -1/2x$

$\frac{6}{10} \times \frac{12}{5} = 2.5$

$-12/5 \quad 2.4$

$-12/5$

$\frac{6}{10}x = 2.4$

$\frac{.6x}{.6} = \frac{2.4}{.6}$

2.4
5 | 12 9
-10
20

Math 34A Winter 2020
Quiz #2b

No calculators

Jenny Banh
PRINT NAME

PERM NUMBER
9519670

Put your answer in the box provided.

TA: ☐ Garo ☐ Trevor ☑ Sam **Time:** ☐ 8am ☐ 6pm ☑ 5pm ☐ 7pm

1. Find the (x, y) coordinates of the point of intersection between:
   - a • the line connecting the points $(x, y) = (-3, 1)$ and $(5, 5)$, and
   - b • the line connecting the points $(x, y) = (-1, 4)$ and $(4, 4)$.

a) $\frac{5-1}{5-(-3)} = \frac{4}{8} = \frac{1}{2}$

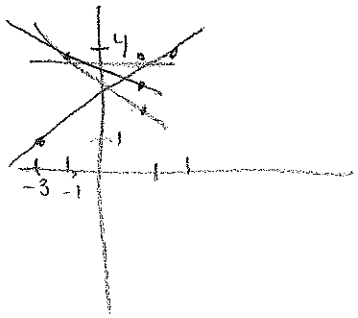
$(x, y) =$ $(3, 4)$

$y - 1 = \frac{1}{2}(x - -3)$

$y = \frac{1}{2}x + \frac{3}{2} + 1$

$y = \frac{1}{2}x + \frac{5}{2}$

$\frac{3}{2} + \frac{2}{2} = \frac{5}{2}$



b) $\frac{4-4}{4-(-1)} = \frac{0}{5} = 0$

$y - 4 = 0(x - -1)$

$y = 4$

$4 = \frac{1}{2}x + 2.5$

$-2.5 \quad -2.5$

$\frac{1.5}{0.5} = \frac{0.5x}{0.5}$

$x = 3$

$y = \frac{1}{2}(3) + \frac{5}{2}$

$y = \frac{3}{2} + \frac{5}{2}$

$y = 8/2 = 4$

$(3, 4)$?

Math 34A Winter 2020
Quiz #2b

No calculators

PRINT NAME Gary Nang

PERM NUMBER 8291601

Put your answer in the box provided.

TA: ☐ Garo ☐ Trevor ☑ Sam

Time: ☐ 8am ☐ 6pm ☑ 5pm ☐ 7pm

1. Find the (x, y) coordinates of the point of intersection between:

   - the line connecting the points $(x, y) = (-3, 1)$ and $(5, 5)$, and
   - the line connecting the points $(x, y) = (-1, 4)$ and $(4, 4)$.

$(x, y) =$ $(3, 4)$

$\frac{4}{8} = \frac{1}{2}$

$y - 1 = \frac{1}{2}(x + 3)$

$y = \frac{1}{2}x + \frac{5}{2}$

$\frac{4-4}{4+1} = 0$

$y - 4 = 0(x + 1)$

$y = 4$

$4 = \frac{1}{2}x + \frac{5}{2}$

$\frac{1}{2}x = \frac{3}{2}$

$x = 3$

Math 34A Winter 2020
Quiz #2b

No calculators

PRINT NAME MADISON THOMAS

PERM NUMBER
8205340

Put your answer in the box provided.

TA: ☐ Garo ☐ Trevor ☑ Sam

Time: ☐ 8am ☐ 6pm ☑ 5pm ☐ 7pm

1. Find the (x, y) coordinates of the point of intersection between:
   - the line connecting the points $(x, y) = (-3, 1)$ and $(5, 5)$, and
   - the line connecting the points $(x, y) = (-1, 4)$ and $(4, 4)$.

$(x, y) =$ $(0.75, 4)$

(x_1, y_1) (x_2, y_2)
$(-3, 1)$ $(5, 5)$

$\frac{5-1}{5-(-3)} = \frac{4}{8} = \frac{1}{2}$

$y - 1 = \frac{1}{2}(x + 3)$

$y - 1 = \frac{1}{2}x + \frac{3}{2}$

$y = \frac{1}{2}x + \frac{3}{2} + 1$

$y = \frac{1}{2}x + 2\frac{1}{2}$

$4 = \frac{1}{2}x + 2.5$

$1.5 = \frac{1}{2}x$

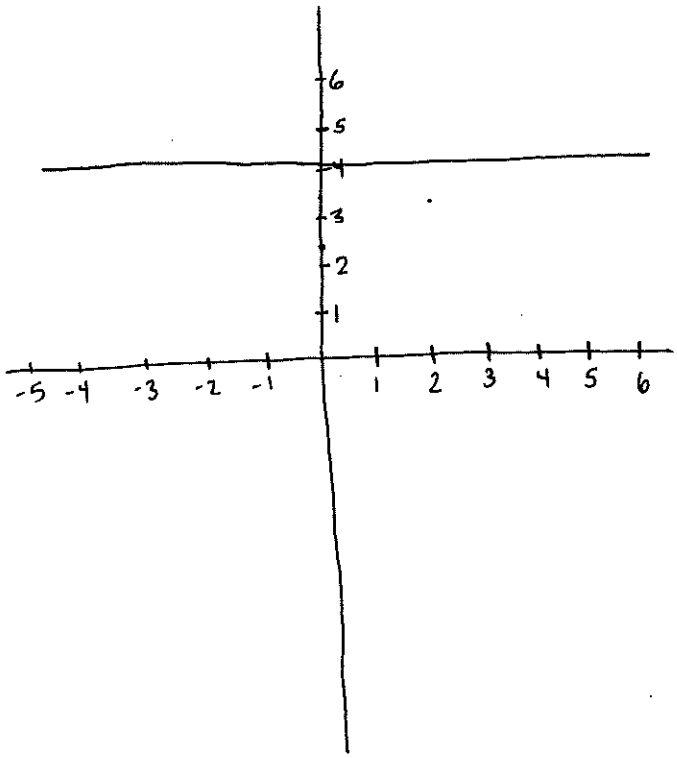
$x = 0.75$

(x_1, y_1) (x_2, y_2)
$(-1, 4)(4, 4)$

$\frac{4-4}{4-(-1)} = \frac{0}{5} = 0$

$y - 4 = 0(x + 1)$

$y = 4$



1 1
0.75
0.75
1.50

Math 34A Winter 2020
Quiz #2b

No calculators

Maddie Brown
PRINT NAME

PERM NUMBER
8425035

Put your answer in the box provided.

TA: ☐ Garo ☐ Trevor ☑ Sam **Time:** ☐ 8am ☐ 6pm ☑ 5pm ☐ 7pm

1. Find the (x, y) coordinates of the point of intersection between:
   - the line connecting the points $(x, y) = (-3, 1)$ and $(5, 5)$, and
   - the line connecting the points $(x, y) = (-1, 4)$ and $(4, 4)$.

Slope 1 $= \frac{5-1}{5-(-3)} = \frac{4}{8} = \frac{1}{2}$

Slope 2 $= \frac{4-4}{4-(-1)} = \frac{0}{5} = 0$

$(x, y) =$ $(3, 4)$

$y_1 = 5 + \frac{1}{2}(x - 5)$

$y_1 = \frac{1}{2}x + 2.5$

$y_1 = 1 + \frac{1}{2}(x - (-3))$

$= 1 + \frac{1}{2}x + 1.5$

$y_1 = 4 + 0(x - 4)$

$y_2 = 4$

$4 = \frac{1}{2}x + 2.5$

-2.5

$(1.5) = \left(\frac{1}{2}x\right)\frac{1}{2}$

$x = 2(1.5) = 3$

$y = \frac{1}{2}(3) + 2.5$

$= 1.5 + 2.5 = 4$

Math 34A Winter 2020
Quiz #2b

No calculators

PRINT NAME ALEX VALDEZ

PERM NUMBER 9773920

Put your answer in the box provided.

TA: ☐ Garo ☐ Trevor ☐ ~~Sam~~

Time: ☐ 8am ☐ 6pm ☑ ~~5pm~~ ☐ 7pm

1. Find the (x, y) coordinates of the point of intersection between:

   A • the line connecting the points $(x, y) = (-3, 1)$ and $(5, 5)$, and

   B • the line connecting the points $(x, y) = (-1, 4)$ and $(4, 4)$.

$(x, y) =$ $\left(-\frac{3}{4}, 4\right)$

A) $\frac{5-1}{5+3} = \frac{4}{3}$

$y = 1 + \frac{4}{3}(x+3)$

B) $\frac{4-4}{4+1} = \frac{0}{4} = 0$

$y = 4 + 0(x+1)$

$y = 4$

$1 + \frac{4}{3}(x+3) = 4 + 0(x+1)$

$1 + \frac{4}{3}x + 4 = 4$

$\frac{4}{3}x + 5 = 4$

$-5 \quad -5$

$\frac{3}{4} \cdot \frac{4}{3}x = -1 \cdot \frac{3}{4}$

$x = -\frac{3}{4}$

CHECK:

$4 = 1 + \frac{4}{3}(x+3)$

$4 = 1 + \frac{4}{3}\left(-\frac{3}{4} + 3\right)$

$4 = 1 + \frac{4}{3}\left(\frac{9}{4}\right)^3$

$4 = 1 + 3$

$4 = 4$

$-\frac{3}{4} + \frac{12}{4} = \frac{9}{4}$

Math 34A Winter 2020
Quiz #2b

No calculators

Aylin Ayala-Gallardo
PRINT NAME

PERM NUMBER
7995343

Put your answer in the box provided.

TA: ☐ Garo ☑ Sam ☐ Trevor **Time:** ☐ 8am ☑ 5pm ☐ 6pm ☐ 7pm

---

1. Find the (x, y) coordinates of the point of intersection between:

   - the line connecting the points $(x, y) = (-3, 1)$ and $(5, 5)$, and
   - the line connecting the points $(x, y) = (-1, 4)$ and $(4, 4)$.

$y - y_1 = m(x - x_1)$

$m_1 = \frac{5-1}{-3-5} = \frac{4}{-8} = -\frac{1}{2}$

$(x, y) =$ $(-3, 4)$

$y - 5 = -\frac{1}{2}(x - 5)$

$y = -\frac{1}{2}x - \frac{5}{2} + 5$

$y = -\frac{1}{2}x - \frac{5}{2} + \frac{10}{2}$

$y = -\frac{1}{2}x + \frac{5}{2}$

$m_2 = \frac{4-4}{-1-4} = \frac{0}{-5} = 0$

$y = 4$

$y - 4 = 0(x - 4)$

$y = 0(x - 4) + 4$

$y = 4$

$4 = -\frac{1}{2}x + \frac{5}{2}$

$4 = -\frac{1}{2}(-3) + \frac{5}{2}$

$4 = \frac{3}{2} + \frac{5}{2}$

$4 = \frac{8}{2}$

$4 = 4$ ✓

$\frac{8}{2} = -\frac{1}{2}x + \frac{5}{2}$

$-2 \cdot \frac{3}{2} = +\frac{1}{2}x \cdot -2$

$-3 = x$

$(-3, 4)$

Math 34A Winter 2020
Quiz #2b

No calculators

PRINT NAME Kevin Fuh

PERM NUMBER
9665936

Put your answer in the box provided. TA: ☐ Garo ☒ Sam ☐ Trevor Time: ☐ 8am ☒ 5pm ☐ 6pm ☐ 7pm

1. Find the (x, y) coordinates of the point of intersection between:
   - the line connecting the points $(x, y) = (-3, 1)$ and $(5, 5)$, and
   - the line connecting the points $(x, y) = (-1, 4)$ and $(4, 4)$.

$(x, y) =$ $(3, 4)$

$(-3,1)$ $(5,5)$

$\frac{y-y_1}{x-x_1} = \frac{1-5}{-3-5} = \frac{-4}{-8} = \frac{1}{2}$

$y-5 = \frac{1}{2}(x-5)$

$y = \frac{1}{2}x - \frac{5}{2} + 5$

$y = \frac{1}{2}x + \frac{5}{2}$

$(-1,4)$ $(4,4)$

$\frac{y-y_1}{x-x_1} = \frac{4-4}{-1-4} = \frac{0}{-5} = 0$

$y-y_1 = m(x-x_1)$

$y-4 = 0(x-4)$

$y-4 = 0$

$y = 4$

$\frac{10}{2} - \frac{5}{2} = \frac{5}{2}$

$4 = \frac{1}{2}x + \frac{5}{2}$

$\frac{8}{2} - \frac{5}{2} = \frac{1}{2}x$

$\frac{3}{2} = \frac{x}{2}$

$6 = 2x$

$x = 3$

$y = \frac{1}{2}(3) + \frac{5}{2}$

$y = \frac{3}{2} + \frac{5}{2} = \frac{8}{2} = 4$

Math 34A Winter 2020
Quiz #2b

No calculators

Brianna Li
PRINT NAME

PERM NUMBER
8197592

Put your answer in the box provided.

TA: ☐ Garo ☑ Sam ☐ Trevor **Time:** ☐ 8am ☑ 5pm ☐ 6pm ☐ 7pm

---

1. Find the (x, y) coordinates of the point of intersection between:

   $m = \frac{5-1}{5+3} = \frac{4}{8} = \frac{1}{2}$

   - the line connecting the points $(x, y) = (-3, 1)$ and $(5, 5)$, and
   - the line connecting the points $(x, y) = (-1, 4)$ and $(4, 4)$.

$(x, y) =$ (3, 4)

$m = \frac{1}{2}$ $\quad y - 1 = \frac{1}{2}(x+3)$

$y = \frac{1}{2}x + \frac{3}{2} + \frac{2}{2}$

$y = \frac{1}{2}x + \frac{5}{2}$

$m = \frac{4-4}{4+1} = \frac{0}{5} = 0$

$y - 4 = 0$

$y = 4$

$\frac{1}{2}x + \frac{5}{2} = 4$

$\frac{1}{2}x = \frac{8}{2} - \frac{5}{2}$

$\frac{1}{2}x = \frac{3}{2}$

$x = 3$

Math 34A Winter 2020
Quiz #2b

No calculators

PRINT NAME Arisvey Ramos

PERM NUMBER 8984650

Put your answer in the box provided.

TA: ☐ Garo ☐ Trevor ☒ Sam

Time: ☐ 8am ☒ 6pm ☐ 5pm ☐ 7pm

1. Find the (x, y) coordinates of the point of intersection between:
   - the line connecting the points $(x, y) = (-3, 1)$ and $(5, 5)$, and
   - the line connecting the points $(x, y) = (-1, 4)$ and $(4, 4)$.

$(x, y) =$ $(3, 4)$

$(-3, 1)$ $(5, 5)$ $(-1, 4)$ $(4, 4)$

$m = \frac{y_2 - y_1}{x_2 - x_1} \Rightarrow \frac{5-1}{5+3} = \frac{4}{8} = \frac{1}{2}$

$m = \frac{4-4}{4+1} = \frac{0}{5} = 0$

$y - y_1 = m(x - x_1)$

$y - 1 = \frac{1}{2}(x+3)$

$y - y_1 = \frac{1}{2}x + \frac{3}{2} + 1$

$y = \frac{1}{2}x + \frac{5}{2}$

$y - 4 = 0(x - \quad)$

$y = 4$

$4 = \frac{1}{2}x + \frac{5}{2}$

$-\frac{5}{2} \quad -\frac{5}{2}$

$2 \cdot \frac{3}{2} = \frac{2}{2}x$

$\frac{6}{2} = x \rightarrow x = 3$

Math 34A Winter 2020
Quiz #2b

No calculators

Ritchie Jeronimo
PRINT NAME

PERM NUMBER
83 59 531

Put your answer in the box provided. TA: ☐ Garo ☐ Trevor ☐ ~~Sam~~ Time: ☐ 8am ☐ 5pm ☑ ~~6pm~~ ☐ 7pm

1. Find the (x, y) coordinates of the point of intersection between:
   - (1) the line connecting the points $(x, y) = (-3, 1)$ and $(5, 5)$, and
   - (2) the line connecting the points $(x, y) = (-1, 4)$ and $(4, 4)$.

$(x, y) =$ $(3, 4)$

Slope $= \frac{y_2 - y_1}{x_2 - x_1}$

$\frac{5-1}{5+3} = \frac{4}{8} \div 4 = \frac{1}{2}$ slope

$y - 1 = \frac{1}{2}(x + 3)$

$y - 1 = \frac{1}{2}x + \frac{3}{2} + 1$

$+1$

(1) $y = \frac{1}{2}x + \frac{5}{2}$

$4 - \frac{5}{2}$

$\frac{8}{2} - \frac{5}{2} = \frac{3}{2}$

$\frac{3}{2} = \frac{1}{2} \times \frac{2}{1}$

$\frac{3}{2} \cdot \frac{2}{1} = \frac{6}{2} = 3 = x$

Slope $= \frac{4-4}{4+1} = \frac{0}{5} = 0$

$y - 4 = 0(x + 1)$

$+4 \quad +4$

$y = 0(x + 1) + 4$

$= 0 + 0 + 4$

$y = 4$

$4 = \frac{1}{2}x + \frac{5}{2}$

$-\frac{5}{2} \quad -\frac{5}{2}$

Math 34A Winter 2020
Quiz #2b

No calculators

Nikel Villa
PRINT NAME

PERM NUMBER
9359469

Put your answer in the box provided.

TA: ☐ Garo ☐ Trevor ☒ Sam

Time: ☐ 8am ☒ 6pm ☐ 5pm ☐ 7pm

1. Find the (x, y) coordinates of the point of intersection between:

   - the line connecting the points $(x, y) = (-3, 1)$ and $(5, 5)$, and
   - the line connecting the points $(x, y) = (-1, 4)$ and $(4, 4)$.

$(x, y) =$ (3, 4)

$\frac{5-1}{5+3}$ $\frac{4}{8} = 2$

$y = 2x + b$ $y = 2x + 7$

$5 = 10 + b$ $4 = 2x - 5$

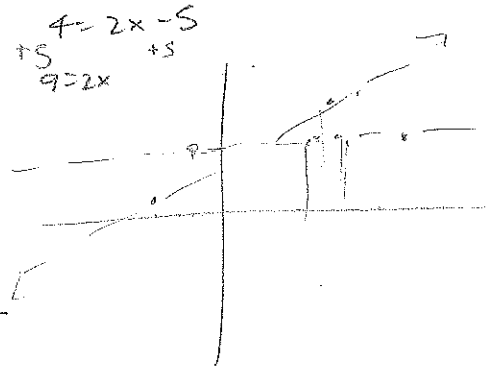
$-10 \quad -10$ $+5 \quad +5$

$9 = 2x$

$2x - 5 = x + 4$

$+5 \quad +5$

$x = 9$



$\frac{4-4}{4+1}$ $\frac{0}{}$

$y = x + b$

$4 = 4 + b$

$+1 \quad -4$

$y = x + 4$

$4 = 2x - 5$

$+5$

$9/2 = x$

$2 \overline{)9}$ $\frac{4}{1}$ $\frac{1}{2}$

$\frac{8}{1}$

$\frac{4-4}{-1-4} = \frac{0}{-5}$

2

$y = 2x + b$

$4 = 2x + 7$

-7

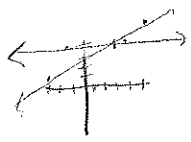
$3 = x$

$y = 2x + 7$

$2x - 5 = x + 4$

$-x \quad +5 \quad +5$

$x = 9$



$\frac{5-1}{5+3}$ $\frac{4}{8} = 2$

$2 \overline{)11}$ $\frac{5.5}{10}$

$y = 4$

$y = 2x + b$

$(1) \quad (-3)$

$1 = -6 + b$

$+6 \quad 7 = b$

$4 = 2x - 7$

$+7$

$11 = 2x$

Math 34A Winter 2020
Quiz #2b

No calculators

PRINT NAME Tristin Castro

PERM NUMBER 8124596

Put your answer in the box provided. TA: ☐ Garo ☐ Trevor ☒ Sam Time: ☐ 8am ☒ 6pm ☐ 5pm ☐ 7pm

1. Find the (x, y) coordinates of the point of intersection between:
   - the line connecting the points $(x, y) = (-3, 1)$ and $(5, 5)$, and
   - the line connecting the points $(x, y) = (-1, 4)$ and $(4, 4)$.

$(x, y) =$ 3, 4

$y - y_1 = m(x - x_1)$

$\frac{y_2 - y_1}{x_2 - x_1} = \frac{5-1}{5+(+3)} = \frac{4}{8} = \frac{1}{2}$

$y - 5 = \frac{1}{2}(x - 5)$

$y - 5 = \frac{1}{2}x - \frac{5}{2} + 5$

$y = \frac{1}{2}x + \frac{5}{2}$

$\frac{1}{2}x + \frac{5}{2} = 4 - \frac{5}{2}$

$\frac{1}{2}x = \frac{3}{2}$

$\frac{3}{2} \cdot \frac{2}{1} = \frac{6}{2}$

$x = 3$

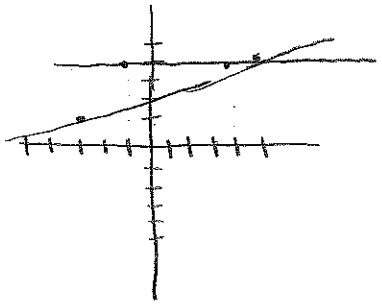
$y = \frac{1}{2}(3) + \frac{5}{2}$

$y = \frac{3}{2} + \frac{5}{2}$

$y = \frac{8}{2} = 4$

$\frac{4-4}{4+(+1)} = \frac{0}{5} =$ no slope

$y = 4$



$\frac{1}{2} \cdot \frac{3}{1} = \frac{6}{2} = 3$

Math 34A Winter 2020
Quiz #2b

No calculators

Claudine Ushana
PRINT NAME

PERM NUMBER
9476649

Put your answer in the box provided.

TA: ☐ Garo ☐ Trevor ☒ Sam

Time: ☐ 8am ☒ 6pm ☐ 5pm ☐ 7pm

1. Find the (x, y) coordinates of the point of intersection between:
   - the line connecting the points $(x, y) = (-3, 1)$ and $(5, 5)$, and $y = \frac{1}{2}x + \frac{5}{2}$
   - the line connecting the points $(x, y) = (-1, 4)$ and $(4, 4)$.

$(x, y) =$ **(3, 4)**

$(-3, 1)$ $(5, 5)$

$m = \frac{y_2 - y_1}{x_2 - x_1} \Rightarrow \frac{5-1}{5+3} = \frac{4}{8}$ or $\frac{1}{2}$

$y - y_1 = m(x - x_1)$

$y - 5 = \frac{1}{2}(x - 5)$

$y - 5 = \frac{1}{2}x - \frac{5}{2}$

$+5 \qquad +\frac{10}{2}$

$y = \frac{1}{2}x + \frac{5}{2}$

$(-1, 4)$ $(4, 4)$

$\frac{4-4}{4+1} = \frac{0}{5} = 0$

$y - y_1 = m(x - x_1)$

$y - 4 = 0(x - 4)$

$y - 4 = 0 - 0$

$y = 4$

$\frac{8}{2} = \frac{2}{2} \times 4 = \frac{1}{2}x + \frac{5}{2}$

$-\frac{5}{2} \qquad -\frac{5}{2}$

$\frac{2}{1} \cdot \frac{3}{2} = \frac{1}{2}x \cdot \frac{2}{1}$

$x = 3$

$y = \frac{1}{2}(3) + \frac{5}{2}$

$\frac{3}{2} + \frac{5}{2}$

$\frac{8}{2}$

$y = 4$

Math 34A Winter 2020
Quiz #2b

No calculators

Daisy Chavez
PRINT NAME

PERM NUMBER
9567660

Put your answer in the box provided. TA: ☐ Garo ☐ Trevor ☒ Sam Time: ☐ 8am ☒ 6pm ☐ 5pm ☐ 7pm

1. Find the (x, y) coordinates of the point of intersection between:
   - the line connecting the points $(x, y) = (-3, 1)$ and $(5, 5)$, and
   - the line connecting the points $(x, y) = (-1, 4)$ and $(4, 4)$.

$(x, y) =$ $(3, 4)$

x_1, y_1 x_2, y_2

$\frac{y_2 - y_1}{x_2 - x_1} = m$

$\frac{5-1}{5+3} = \frac{4}{8} = \frac{1}{2}$

$y = \frac{1}{2}x + b$

$5 = \frac{1}{2}(5) + b$

$5 = \frac{5}{2} + b$

$-\frac{5}{2}$ $-\frac{5}{2}$

$\frac{5}{1} - \frac{5}{2} = b$

$\frac{10}{2} - \frac{5}{2} = b$

$\frac{5}{2} = b$

$\frac{y_2 - y_1}{x_2 - x_1} = m$

$\frac{4-4}{4--1} = \frac{0}{5}$

$y = 0x + b$

$4 = 0(-1) + b$

$0 + b$

$b = 4$

$y = 0(3) + 4$

$\frac{1}{2}x + \frac{5}{2} = 0x + 4$

$-0x$ $-0x$

$-\frac{5}{2}$ $-\frac{5}{2}$

$\frac{1}{2}x = \frac{3}{2}$ 2

$x = 3$

$2 \cdot \frac{4-5}{1} - \frac{5}{2}$

$\frac{8}{2} - \frac{5}{2}$

$\frac{3}{2}$

Math 34A Winter 2020
Quiz #2b

No calculators

PRINT NAME: Ruilan Zhang

PERM NUMBER: 8191793

Put your answer in the box provided.

TA: ☐ Garo ☑ Sam ☐ Trevor **Time:** ☐ 8am ☐ 5pm ☑ 6pm ☐ 7pm

1. Find the (x, y) coordinates of the point of intersection between:
   - the line connecting the points $(x, y) = (-3, 1)$ and $(5, 5)$, and
   - the line connecting the points $(x, y) = (-1, 4)$ and $(4, 4)$.

$(x, y) =$ $\boxed{(2, 7)}$

$\rightarrow$ slope $= \frac{5-1}{5+3} = \frac{4}{8} = \boxed{\frac{1}{2}}$

$y = mx + b$

$1 = \frac{1}{2}(-3) + b$

$1 = -\frac{3}{2} + b$

$+\frac{3}{2} \quad +\frac{3}{2}$

$\frac{5}{2} = b$

① $y = \frac{1}{2}x + \frac{5}{2}$

② $y = x + 5$

$\rightarrow x + 5 = \frac{1}{2}x + \frac{5}{2}$

$-0.5x - 5 \quad -0.5x \quad -5$

$\frac{1}{2}x = \frac{10}{2} - \frac{5}{2}$

$\frac{1}{2}x = \frac{2}{2} = 1$

$\frac{1}{2}x = 1$

$\frac{1}{2} \quad \frac{1}{2}$

$\boxed{x = 2}$

$\rightarrow$ slope $= \frac{4-4}{4+1} = \frac{0}{5} = \boxed{0}$

$y = mx + b$

$4 = 0 + b$

$+1 \quad +1$

$\boxed{5 = b}$

$\rightarrow y = 2 + 5$

$\boxed{7 = y}$

Math 34A Winter 2020
Quiz #2b

No calculators

Martha Hernandez
PRINT NAME

PERM NUMBER
9505918

Put your answer in the box provided.

TA: ☐ Garo ☐ Trevor ☒ Sam

Time: ☐ 8am ☒ 6pm ☐ 5pm ☐ 7pm

1. Find the (x, y) coordinates of the point of intersection between:
   - the line connecting the points $(x, y) = (-3, 1)$ and $(5, 5)$, and
   - the line connecting the points $(x, y) = (-1, 4)$ and $(4, 4)$.

1) $m = \frac{y_2 - y_1}{x_2 - x_1} = \frac{5-1}{5-3} = \frac{4}{8} = \frac{1}{2}$ $(x, y) =$ **(4, 4)**

$y = mx + b$

$5 = \frac{1}{2}(5) + b$

$\frac{2}{5} \cdot 5 = \frac{5}{2} \cdot \frac{2}{5} + b$

$\frac{10}{5} = b$

$2 = b$

$y = \frac{1}{2}x + 2$

$m = \frac{y_2 - y_1}{x_2 - x_1} = \frac{4-4}{4-(-1)} = \frac{0}{5} = 0$

$y = mx + b$

$4 = (0)4 + b$

$4 = 0 + b$

$4 = b$

$y = 4$

$4 = \frac{1}{2}x + 2$

$-2 \quad -2$

$2 \cdot 2 = \frac{1}{2}x \cdot \frac{2}{1}$

$4 = x$

$y = \frac{1}{2}(4) + 2$

$y = 2 + 2$

$y = 4$

Math 34A Winter 2020
Quiz #2b

No calculators

COBY JOLISH
PRINT NAME

PERM NUMBER
3372422

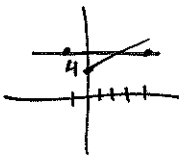
Put your answer in the box provided.

TA: ☐ Garo ☐ Trevor ☒ Sam

Time: ☐ 8am ☒ 6pm ☐ 5pm ☐ 7pm

---

1. Find the (x, y) coordinates of the point of intersection between:
   - the line connecting the points $(x, y) = (-3, 1)$ and $(5, 5)$, and
   - the line connecting the points $(x, y) = (-1, 4)$ and $(4, 4)$.



$(x, y) =$ 3, 4

(-3, 1)
(5, 5)
$m = \frac{-4}{-8} = \frac{1}{2}$

$5 = \frac{1}{2}(5) + b$
$-2.5 \quad -2.5$
$2.5 = b$

line 1: $y = \frac{1}{2}x + \frac{5}{2}$

(4, 4)
(-1, 4)
5, 0

$4 = \frac{1}{2}x + \frac{5}{2}$
$\frac{3}{2} = \frac{1}{2}x$
$\frac{1}{2}$

$\frac{3}{2} \cdot \frac{2}{1} = \frac{6}{2} = 3$

Math 34A Winter 2020
Quiz #2b

No calculators

Kiana Ranjbaran
PRINT NAME

PERM NUMBER
8193393

Put your answer in the box provided.

TA: ☐ Garo ☐ Trevor ☐ Sam **Time:** ☐ 8am ☐ 5pm ☒ 6pm ☐ 7pm

1. Find the (x, y) coordinates of the point of intersection between:
   - the line connecting the points $(x, y) = (-3, 1)$ and $(5, 5)$, and
   - the line connecting the points $(x, y) = (-1, 4)$ and $(4, 4)$.

$(x, y) =$ $(3, 4)$

$\frac{5-1}{5+3} = \frac{4}{8} = \frac{1}{2}$

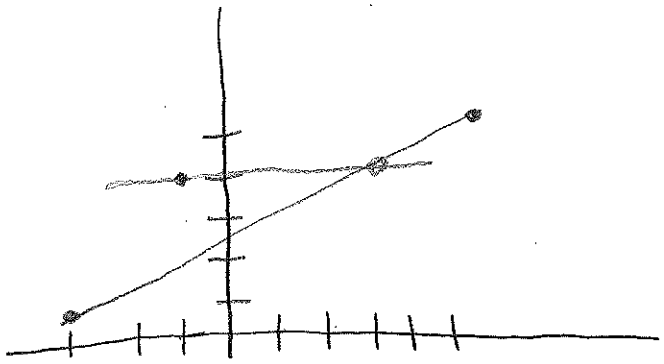
$y - 5 = \frac{1}{2}(x - 5)$

$y - 5 = \frac{1}{2}x - 2.5$

$y = \frac{1}{2}x + 2.5$

$\frac{4-4}{4+4} = \frac{0}{5}$

$y = 4$



$4 = \frac{1}{2}x + 2.5$

$1.5 = \frac{1}{2}x$

$3 = x$

Math 34A Winter 2020
Quiz #2b

No calculators

PRINT NAME

PERM NUMBER

Put your answer in the box provided.

TA: ☐ Garo ☐ Sam ☐ Trevor **Time:** ☐ 8am ☐ 5pm ☐ 6pm ☐ 7pm

---

1. Find the (x, y) coordinates of the point of intersection between:

   - the line connecting the points $(x, y) = (-3, 1)$ and $(5, 5)$, and
   - the line connecting the points $(x, y) = (-1, 4)$ and $(4, 4)$.

$$(x, y) =$$

Math 34A Winter 2020
Quiz #2b

No calculators

Roya Ghasemingad
PRINT NAME

PERM NUMBER
8098204

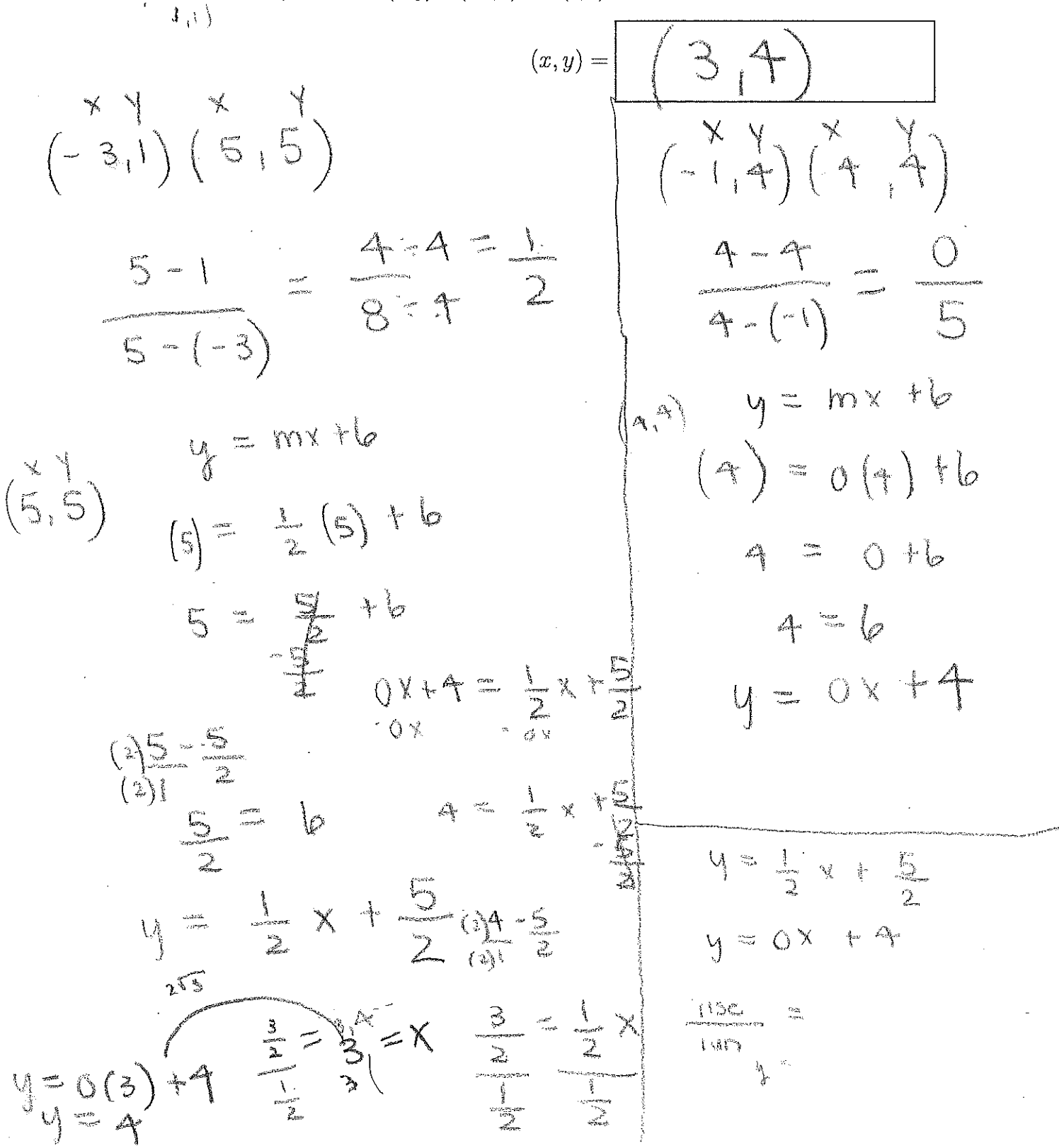
Put your answer in the box provided. **TA:** ☐ Garo ☐ Trevor **Time:** ☒ 8am ☐ 6pm ☒ 9am ☐ 5pm ☐ 7pm

---

1. Find the (x, y) coordinates of the point of intersection between:

   - the line connecting the points $(x, y) = (-3, 1)$ and $(5, 5)$, and
   - the line connecting the points $(x, y) = (-1, 4)$ and $(4, 4)$.

$(x, y) =$ $(3, 4)$



Math 34A Winter 2020
Quiz #2b

No calculators

PRINT NAME Leonard Fernandez

PERM NUMBER 9839481

Put your answer in the box provided. TA: ☐ Garo ☒ Sam ☐ Trevor Time: ☒ 8am ☐ 5pm ☐ 6pm ☐ 7pm

---

1. Find the (x, y) coordinates of the point of intersection between:
   - the line connecting the points $(x, y) = (-3, 1)$ and $(5, 5)$, and
   - the line connecting the points $(x, y) = (-1, 4)$ and $(4, 4)$.

$(x, y) =$ $(7, 4)$

$(-3,1)(5,5)$
$x_1\ y_1\ \ x_2\ y_2$

$m = \frac{5-1}{5-(-3)} \quad \frac{4}{8} \quad \frac{1}{2}$

$y - 5 = \frac{1}{2}(x - 5)$

$y = \frac{1}{2}(x - 5) + 5$

$y = \frac{1}{2}(x + 3) - 1$

$y = \frac{1}{2}x + \frac{3}{2} - \frac{2}{2}$

$y = \frac{1}{2}x + 1/2$

$(-1,4)(4,4)$
$x_1\ y_1\ \ x_2\ y_2$

$m = \frac{4-4}{4-(-1)} = 0$

$y - 4 = 0$

$y = 4$

$(7, 4)$

$4 = \frac{1}{2}(x - 5) + 5$
$-5 \qquad\qquad -5$

$-1 = \frac{1}{2}(x - 5)$

$-1 = \frac{1}{2}x - \frac{5}{2}$

$\frac{-1+5}{2} \quad \frac{2}{2}$

$\frac{4}{2} = \frac{1}{2}x$

$8 = x$

$4 = \frac{1}{2}x + 1/2$

$\frac{8}{2} - \frac{1}{2}$

$\frac{7}{2} = \frac{1}{2}x$

$x = 7$

Math 34A Winter 2020
Quiz #2b

No calculators

PRINT NAME Alyxza Chavez

PERM NUMBER
83891413

Put your answer in the box provided. TA: ☐ Garo ☒ Sam ☐ Trevor Time: ☒ 8am ☐ 5pm ☐ 6pm ☐ 7pm

1. Find the (x, y) coordinates of the point of intersection between:
   - the line connecting the points $(x, y) = (-3, 1)$ and $(5, 5)$, and
   - the line connecting the points $(x, y) = (-1, 4)$ and $(4, 4)$.

$(x, y) =$

x_1, y_1 x_2, y_2

$\text{Slope} = \frac{5-1}{5-(-3)} = \frac{4}{8} = \frac{1}{2}$

$\text{Slope intercept} = y - 1 = \frac{1}{2}(x - (-3))$

$y = \frac{1}{2}(x + 3) + 1$

Find x. How? Solve...

$\frac{1}{2}(x+3)+1 = 0(x+1)+4$

$\text{Slope} = \frac{4-4}{4-(-1)} = \frac{0}{5} = 0?$

$y - 4 = 0(x - (-1))$

$y = 0(x + 1) + 4$

Math 34A Winter 2020
Quiz #2b

No calculators

Michelle Avina
PRINT NAME

PERM NUMBER
838452

Put your answer in the box provided. **TA:** ☐ Garo ☒ Sam ☐ Trevor **Time:** ☒ 8am ☐ 5pm ☐ 6pm ☐ 7pm

1. Find the (x, y) coordinates of the point of intersection between:

A • the line connecting the points $(x, y) = (-3, 1)$ and $(5, 5)$, and

B • the line connecting the points $(x, y) = (-1, 4)$ and $(4, 4)$.

$(x, y) =$ 3, 4

A: $(-3,1)(5,5)$

$\frac{5-1}{5+3} = \frac{4}{8} = \frac{1}{2}$

$y - 5 = \frac{1}{2}(x - 5)$

$y = \frac{1}{2}x - \frac{5}{2} + \frac{10}{2}$

$y = \frac{1}{2}x + \frac{5}{2}$

✓: $\frac{1}{2}\left(\frac{10}{2}\right) + \frac{5}{2}$

$\frac{10}{4} + \frac{10}{4}$

$= \frac{20}{4} = 5$

B: $(-1,4)(4,4)$

$\frac{4-4}{4+1} = \frac{0}{5} = 0$

$y - 4 = 0(x - 4)$

$y = 0x + 0 + 4$

$y = 0x + 4$

✓: $0(-1) + 4$

$0 + 4 = 4$

$0(4) + 4$

$0 + 4 = 4$

A & B:

$0x + 4 = \frac{1}{2}x + \frac{5}{2}$

$0x - \frac{1}{2}x = -\frac{8}{2} + \frac{5}{2}$

$-\frac{1}{2}x = -\frac{3}{2}$

$x = 3$

$y = \frac{1}{2}\left(\frac{6}{2}\right) + \frac{5}{2}$

$y = \frac{6}{4} + \frac{10}{4}$ ...

$y = \frac{16}{4}$

$y = 4$

Math 34A Winter 2020
Quiz #2b

No calculators

Cecilia Gonzales
PRINT NAME

PERM NUMBER
9440249

Put your answer in the box provided. TA: ☐ Garo ☐ Sam ☐ Trevor **Time:** ☒ 8am ☐ 5pm ☐ 6pm ☐ 7pm

---

1. Find the (x, y) coordinates of the point of intersection between:

1 • the line connecting the points $(x, y) = (-3, 1)$ and $(5, 5)$, and

2 • the line connecting the points $(x, y) = (-1, 4)$ and $(4, 4)$.

$(x, y) =$ $(3, 4)$

(1) $(-3,1)$ $(5,5)$

$\frac{5-1}{5+3} = \frac{4}{8} = \frac{1}{2}$

$y - y_1 = \frac{1}{2}(x - x_1)$

$y - 1 = \frac{1}{2}(x + 3)$

$y - 1 = \frac{1}{2}x + \frac{3}{2} + 1$

$y = \frac{1}{2}x + \frac{3}{2} + \frac{1}{1} \cdot \frac{2}{2} = \frac{2}{2}$

$y = \frac{1}{2}x + \frac{5}{2}$

$\frac{1}{2}$ $\frac{3}{1}$ $\frac{3}{2}$

$\frac{4-1}{1} \quad \frac{5}{2} = \frac{1}{2}x$

$\frac{8}{2} - \frac{5}{2} = \frac{3}{2}$

$\frac{3}{2} = \frac{1}{2}x$

$x = \frac{3}{2} \div \frac{1}{2}$

$\frac{3}{2} \quad \frac{6}{2} = 3$

$\frac{6}{2} = 3$

$4 = \frac{1}{2}x + \frac{5}{2}$

$-\frac{5}{2}$

$y = \frac{1}{2}x + \frac{5}{2}$

(2) $(-1,4)$ $(4,4)$

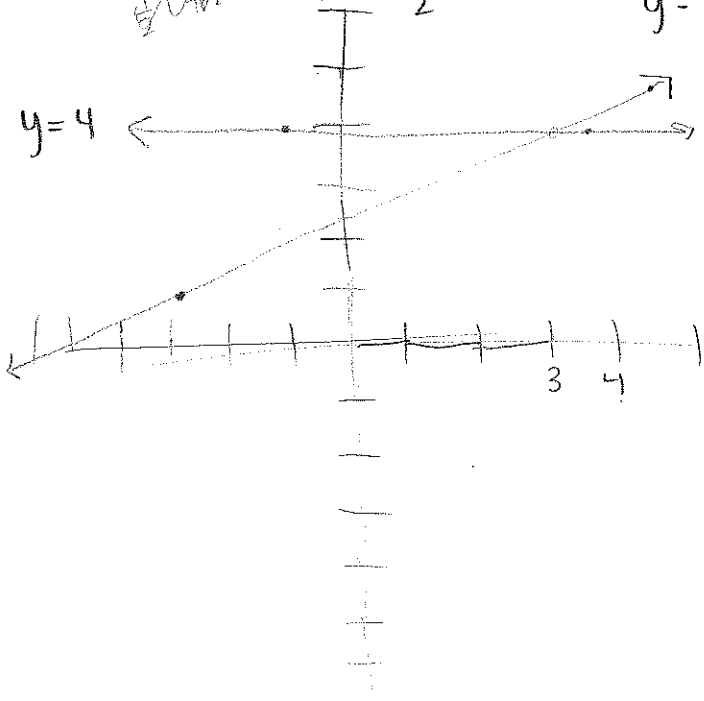
$\frac{4+4}{4+1} = \frac{0}{5}$

$y - y_1 = \frac{0}{5}(x - x_1)$

$y - 4 = \frac{0}{5}(x - 4)$

$y - 4 = \frac{0}{5}x - \frac{0}{5} + 4$

$y = 4$



Math 34A Winter 2020
Quiz #2b

No calculators

PRINT NAME Amelia Alvarado

PERM NUMBER
9502097

Put your answer in the box provided. TA: ☐ Garo ☐ Trevor ☑ Sam Time: ☑ 8am ☐ 5pm ☐ 6pm ☐ 7pm

1. Find the (x, y) coordinates of the point of intersection between:
   - the line connecting the points $(x, y) = (-3, 1)$ and $(5, 5)$, and
   - the line connecting the points $(x, y) = (-1, 4)$ and $(4, 4)$.

$(x, y) =$ ~~[illegible]~~ $-1, 4$

1) $m = \frac{5-1}{5+3} = \frac{4}{8} = \frac{1}{2}$

$y - 5 = \frac{1}{2}(x - 5)$

$y = \frac{1}{2}(x-5) + 5$

$5 = \frac{1}{2}(5) + b$

$b = 2.5$

$y = \frac{1}{2}x + 2.5$

$4 + x = \frac{1}{2}x - 2.5 + 5$

$4 + x = \frac{1}{2}x + 2.5$

$4 = \frac{1}{2}x + 2.5 - x$

$1.5 = \frac{1}{2}x - x$

$-1\frac{1}{2}x$

$x = -1$

$y = 4 + 0$

$y = 4$

2) $m = \frac{4-4}{4+1} = \frac{0}{5} = 0$

$y - 4 = 0(x - 4)$

$y = 4 + x$

$4 = 0(4) + b$

$b = 4$

$y = 0x + 4$

$\frac{1}{2}x + 2.5 = 0x + 4$

$\frac{1}{2}x - x = 1.5$

$-1.5x = 1.5$

$\frac{-1.5}{-1.5} \quad \frac{1.5}{-1.5}$

$x = -1$

Math 34A Winter 2020
Quiz #2b

No calculators

Melissa Veliz Navas
PRINT NAME

PERM NUMBER
8064859

Put your answer in the box provided. **TA:** ☐ Garo ☑ Sam ☐ Trevor **Time:** ☑ 8am ☐ 5pm ☐ 6pm ☐ 7pm

---

1. Find the (x, y) coordinates of the point of intersection between:

   - the line connecting the points $(x, y) = (-3, 1)$ and $(5, 5)$, and
   - the line connecting the points $(x, y) = (-1, 4)$ and $(4, 4)$.

$(x, y) =$ $(3, 4)$

(x_1, y_1) (x_2, y_2)
$(-3, 1)$ $(5, 5)$

$m = \frac{5-1}{5-(-3)} = \frac{4}{8} = \frac{1}{2}$

$y = \frac{1}{2}x + b$

$5 = \frac{1}{2}(5) + b$

$5 = \frac{5}{2} + b$

$2.5 = b$

$y = \frac{1}{2}x + 2.5$

(x_1, y_1) (x_2, y_2)
$(-1, 4)$ $(4, 4)$

$m = \frac{4-4}{4-(-1)} = \frac{0}{5} = 0$

$y = 0x + b$

$4 = 0(4) + b$

$b = 4$

$y = 4$

$\frac{1}{2}x + 2.5 = 4$

$\frac{1}{2}x = 1.5$

$x = 3$

Math 34A Winter 2020
Quiz #2b

No calculators

Michaela Perez-Kelly
PRINT NAME

PERM NUMBER
7181076

Put your answer in the box provided.

TA: ☐ Garo ☐ Trevor ☒ Sam **Time:** ☒ 8am ☐ 6pm ☐ 5pm ☐ 7pm

1. Find the (x, y) coordinates of the point of intersection between:
   - the line connecting the points $(x, y) = (-3, 1)$ and $(5, 5)$, and
   - the line connecting the points $(x, y) = (-1, 4)$ and $(4, 4)$.

$(x, y) =$ $(0, 0)$?

$\frac{5-1}{5-(-3)} = \frac{4}{8} = \frac{1}{2}$ — $y - 5 = \frac{1}{2}(x - 5)$

$y - 5 = \frac{1}{2}x - \frac{5}{2}$

$+5$

$y = \frac{1}{2}x - \frac{5}{2} + \frac{10}{2}$

$y = \frac{1}{2}x + \frac{5}{2}$

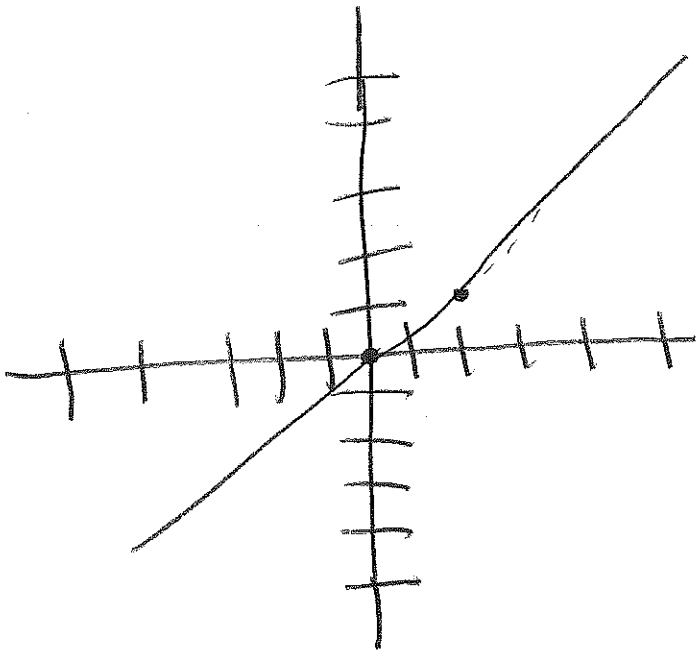
$\frac{4-4}{4-(-1)} = \frac{0}{5} = 0$ —

$y - 4 = 0(x - 4)$

$y - 4 = x + 4$

$+4$

$y = x + 4$



Math 34A Winter 2020
Quiz #2b

No calculators

DAISY BAUTISTA
PRINT NAME

PERM NUMBER
8184475

Put your answer in the box provided. TA: ☐ Garo ☒ Sam ☐ Trevor Time: ☒ 8am ☐ 5pm ☐ 6pm ☐ 7pm

$y - y_1 = m(x - x_1)$

1. Find the (x, y) coordinates of the point of intersection between:
   - the line connecting the points $(x, y) = (-3, 1)$ and $(5, 5)$, and
   - the line connecting the points $(x, y) = (-1, 4)$ and $(4, 4)$.

$(-3, 1)(5, 5)$
x_1, y_1, x_2, y_2

$(x, y) =$ $(2, 4)$

$\frac{5-1}{5+3} = \frac{4}{8} = \frac{1}{2}$ $y = \frac{1}{2}x + b$

$5 = \frac{1}{2}(5) + b$

$5 = 2.5 + b$

$-2.5 \quad -2.5$

$2.5 = b$

$y = \frac{1}{2}x + 2.5$

$y - y_1 = m(x - x_1)$

$y - 1 = \frac{1}{2}(x + 3)$

$y - 1 = \frac{1}{2}x + 1.5$

$+1 \quad +1$

$y = 0.5x + 2.5$

$(-1, 4)(4, 4)$
x_1, y_1, x_2, y_2

$\frac{4-4}{4+1} = \frac{0}{5} = 0$ $y = 0x + b$

$4 = 0(4) + b$

$4 = b$

$y = 4$

$y - y_1 = m(x - x_1)$

$y - 4 = 0(x - 4)$

$y - 4 = 0$

$+4 \quad +4$

$y = 4$

$y = \frac{1}{2}(3) + 2.5$

$y = 1.5 + 2.5$

$y = 4$

$\frac{1}{2}x + 2.5 = 4$

$-2.5 \quad -2.5$

$\frac{1}{2}x = 1.5$

$\frac{0.5x}{0.5} = \frac{1.5}{0.5}$

$x = 3$

Math 34A Winter 2020
Quiz #2b

No calculators

Jennifer Olivares
PRINT NAME

PERM NUMBER
9600156

Put your answer in the box provided. TA: ☐ Garo ☐ Trevor ☐ ~~Sam~~ Time: ☐ ~~8am~~ ☐ 6pm ☐ 5pm ☐ 7pm

1. Find the (x, y) coordinates of the point of intersection between:
   - the line connecting the points $(x, y) = (-3, 1)$ and $(5, 5)$, and
   - the line connecting the points $(x, y) = (-1, 4)$ and $(4, 4)$.

$(x, y) =$ $(3, -1)$

$(-3, 1)$ $(5, 5)$

$\frac{5-1}{5+3} = \frac{4}{8} = \frac{1}{2}$ b slope

$y\ m\left(-\frac{1}{2}\right)$

$(-1, 4)$ $(4, 4)$ $(2, 1)$

$\frac{4-4}{4+1} = \frac{0}{5} = 0$ b $(5, 0)$ $\frac{0-1}{5-2} = \frac{-1}{3}$

$(2, 1)$ $(5, 0)$

Math 34A Winter 2020
Quiz #2b

No calculators

Thea Downs
PRINT NAME

PERM NUMBER
8991846

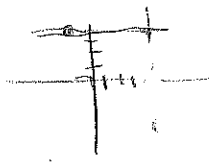
Put your answer in the box provided. **TA:** ☐ Garo ☐ Trevor ☒ Sam **Time:** ☐ 8am ☐ 5pm ☐ 6pm ☐ 7pm

---

1. Find the (x, y) coordinates of the point of intersection between:
   - the line connecting the points $(x, y) = (-3, 1)$ and $(5, 5)$, and
   - the line connecting the points $(x, y) = (-1, 4)$ and $(4, 4)$.

$y - y_1 = m(x - x_1)$

$(x, y) =$ $(3, 4)$



$\frac{5-1}{5+3}$ $\frac{4}{8}$ $\frac{1}{2}$

$\frac{4-4}{4+1}$ $\frac{}{5}$

$y - 5 = \frac{1}{2}(x - 5)$

$y - 5 = \frac{1}{2}x - 2.5$

$+ 5$

$y = \frac{1}{2}x + 2.5$

$= \frac{1}{2}(5) + 2.5$

$y - 4 = 0(x - 4)$

$y = 4$

$4 = \frac{1}{2}x + 2.5$

-2.5

$\frac{2}{1} \cdot 1.5 = \frac{x}{2}x \cdot \frac{2}{1}$

$x = 3.0$

$y = 4$

$\begin{array}{r} 1 \\ 2.0 \\ \times 1.5 \\ \hline 0\ 0 \end{array}$

Math 34A Winter 2020
Quiz #2b

No calculators

PRINT NAME Jude Lammers

PERM NUMBER 7774797

Put your answer in the box provided. **TA:** ☐ Garo ☐ Trevor **Time:** ☑ 8am ☐ 6pm ☑ Sam ☐ 5pm ☐ 7pm

1. Find the (x, y) coordinates of the point of intersection between:
   - the line connecting the points $(x, y) = (-3, 1)$ and $(5, 5)$, and
   - the line connecting the points $(x, y) = (-1, 4)$ and $(4, 4)$.

$(x, y) =$ $(3, 4)$

Line 1: $\frac{5-1}{5+3} = \frac{4}{8} = \frac{1}{2}$

$1 = \frac{1}{2}(-3) + b$

$1 = -\frac{3}{2} + b$

$b = \frac{5}{2}$

$y = \frac{1}{2}x + \frac{5}{2}$

Line 2: $\frac{4-4}{4+1} = \frac{0}{5} = 0$

$4 = 0(4) + b$

$b = 4$

$y = 4$

$4 = \frac{1}{2}x + \frac{5}{2}$

$\frac{8}{2} - \frac{5}{2} = \frac{3}{2}$

$2\left(\frac{3}{2}\right) = \left(\frac{1}{2}x\right)2$

$x = 3$

$y = \frac{1}{2}(3) + \frac{5}{2}$

$y = \frac{3}{2} + \frac{5}{2}$

$y = \frac{8}{2}$

$y = 4$

Math 34A Winter 2020
Quiz #2b

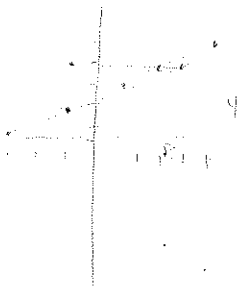
No calculators

Alexandrea Sarille
PRINT NAME

PERM NUMBER
3380342

Put your answer in the box provided. **TA:** ☐ Garo ☐ Trevor ☒ Sam **Time:** ☒ 8am ☐ 5pm ☐ 6pm ☐ 7pm

1. Find the (x, y) coordinates of the point of intersection between:
   - the line connecting the points $(x, y) = (-3, 1)$ and $(5, 5)$, and
   - the line connecting the points $(x, y) = (-1, 4)$ and $(4, 4)$.



$(x, y) =$ $(3, 4)$

Math 34A Winter 2020
Quiz #2b

No calculators

Alex Cuevas-Bodinez
PRINT NAME

PERM NUMBER
7814387

Put your answer in the box provided. TA: ☑ Garo ☐ Trevor ☐ Sam Time: ☐ 8am ☐ 6pm ☑ 5pm ☐ 7pm

1. Find the (x, y) coordinates of the point of intersection between:

   - the line connecting the points $(x, y) = (-3, 1)$ and $(5, 5)$, and
   - the line connecting the points $(x, y) = (-1, 4)$ and $(4, 4)$.

1. $\frac{5-1}{5-(-3)} = \frac{4}{8}$ $m = 0.5$

2. $\frac{4-4}{4-(-1)} = \frac{0}{5} = 0$

$(x, y) =$ (3, 4)

1. $y = mx + b$ $5 = 0.5(5) + B$ $5 = 2.5 + B$ $B = 2.5$

1. $y = 0.5(x) + 2.5$

2. $y = mx + B$ $y = 0(y) + B$ $B = 4$ $y = 0(x) + 4$

$y = 0(x) + 4$
$y = 0.5(x) + 2.5$

$y = 0.5(x) + 2.5$
$y = 0.5x + 2.5$
$\frac{1.5}{0.5} = \frac{0.5x}{0.5}$ $x = 3$

$y = 0.5(3) + 2.5$
$y = 1.5 + 2.5$
$y = 4$

Math 34A Winter 2020
Quiz #2b

No calculators

Marisol Cruz
PRINT NAME

PERM NUMBER
953612

Put your answer in the box provided.

TA: ☑ Garo ☐ Trevor ☐ Sam

Time: ☐ 8am ☐ 6pm ☑ 5pm ☐ 7pm

1. Find the (x, y) coordinates of the point of intersection between:
   - the line connecting the points $(x, y) = (-3, 1)$ and $(5, 5)$, and
   - the line connecting the points $(x, y) = (-1, 4)$ and $(4, 4)$.

$(x, y) =$ (13, 9)

slope $= \frac{y_2 - y_1}{x_2 - x_1} = \frac{5-1}{5-(-3)} = \frac{4}{8} = \frac{1}{2}$

$y - y_1 = m(x - x_1)$

$y - 1 = \frac{1}{2}(x - (-3))$

$y = 1/2x + 5/2$

$y = \frac{1}{2}(13) + \frac{5}{2}$

$y = \frac{13}{2} + \frac{5}{2}$

$3/2 + \frac{2}{2}$

$y = \frac{18}{2}$

slope $= \frac{4-4}{4-(-1)} = 0$

$y - y_1 = m(x - x_1)$

$y - 4 = 0(x - (-1))$

$y = 4$

$4 = 1/2x + 5/2$

$\frac{13}{2} = \frac{1}{2}x$

$x = 13$

$\frac{5}{2} + \frac{4}{1}$

$\frac{5}{2} + \frac{8}{2} = \frac{13}{2}$

$\frac{13}{2} \cdot \frac{2}{1} = 13$

$\frac{13}{2} \div \frac{1}{2}$

Math 34A Winter 2020
Quiz #2b

No calculators

Giuliano Fusco
PRINT NAME

PERM NUMBER
775655

Put your answer in the box provided.

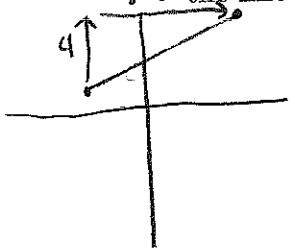
TA: ☑ Garo ☐ Trevor ☐ Sam

Time: ☐ 8am ☐ 6pm ☑ 5pm ☐ 7pm

---

1. Find the (x, y) coordinates of the point of intersection between:

   - the line connecting the points $(x, y) = (-3, 1)$ and $(5, 5)$, and
   - the line connecting the points $(x, y) = (-1, 4)$ and $(4, 4)$.

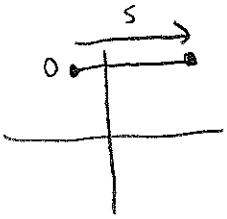


$\frac{4}{8} \to \frac{1}{2}$

$5 = \frac{1}{2}5 + b$

$b = \frac{5}{2}$

$y = \frac{1}{2}x + \frac{5}{2}$



$4 = 0(4) + b$

$y = 4$

$4 = \frac{1}{2}x + \frac{5}{2}$

$1.5 = \frac{1}{2}x$

$x = 3$

$(x, y) =$ (3, 4)

Math 34A Winter 2020
Quiz #2b

No calculators

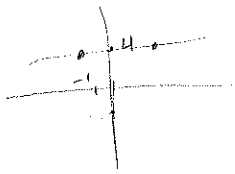
Vanessa Bravo
PRINT NAME

PERM NUMBER
9419409

Put your answer in the box provided. **TA:** ☑ Garo ☐ Trevor ☐ Sam **Time:** ☐ 8am ☐ 5pm ☐ 6pm ☐ 7pm

---

1. Find the (x, y) coordinates of the point of intersection between:



- L_1 • the line connecting the points $(x, y) = (-3, 1)$ and $(5, 5)$, and
- L_2 • the line connecting the points $(x, y) = (-1, 4)$ and $(4, 4)$.

$(x, y) =$ **(3, 4)**

L_1 slope $= \frac{5-1}{5-(-3)} = \frac{4}{8} = 1/2$

L_2 slope $= \frac{4-4}{4-(-1)} = \frac{0}{5} = 0$

L_1: $y = 1/2x + b$

$5 = 1/2(5) + b$

$5 = 2.5 + b$

$2.5 = b$

$y = 1/2x + 2.5$

$1/2x + 2.5 = 4$

$-2.5 \quad -2.5$

$1/2x = 1.5$

$2 \cdot 1/2x = 1.5 \cdot 2$

$x = 3$

L_2: $y = 0x + b$

$4 = 0 + b$

$b = 4$

$y = 4$

$1.5 \times 2 = 30$

Math 34A Winter 2020
Quiz #2b

No calculators

PRINT NAME Caleb Burrows

PERM NUMBER 7779754

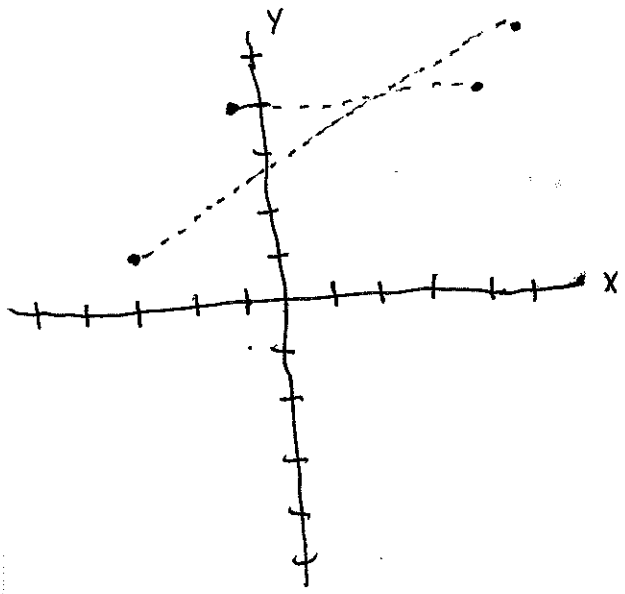
Put your answer in the box provided.

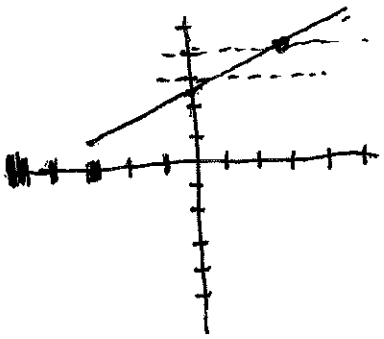
TA: ☑ Garo ☐ Trevor ☐ Sam

Time: ☐ 8am ☐ 5pm ☐ 6pm ☐ 7pm

1. Find the (x, y) coordinates of the point of intersection between:
   - the line connecting the points $(x, y) = (-3, 1)$ and $(5, 5)$, and
   - the line connecting the points $(x, y) = (-1, 4)$ and $(4, 4)$.

$(x, y) =$ $(3, 4)$





$2 < x < 3$

$y = 4$

$y = \frac{1}{2}x + 2.5$

$4 = \frac{1}{2}x + 2.5$ $1.5 = \frac{1}{2}x$ $x = 3$

$\frac{5-1}{5+3} = \frac{4}{8} = \frac{1}{2}$

$\frac{1}{2}x + 2.5 = 4$

$\frac{1}{2}x = 1.5$

$x = 3$

$y = \frac{1}{2}x + b$

$5 = 2.5 + b$

$b = 2.5$

$y = \frac{1}{2}x + 2.5$

$y = 0x + 4$

Math 34A Winter 2020
Quiz #2b

No calculators

PRINT NAME Gaen Ha

PERM NUMBER 7992547

Put your answer in the box provided.

TA: ☑ Garo ☐ Trevor ☐ Sam

Time: ☐ 8am ☑ 5pm ☐ 6pm ☐ 7pm

1. Find the (x, y) coordinates of the point of intersection between:
   - the line connecting the points $(x, y) = (-3, 1)$ and $(5, 5)$, and
   - the line connecting the points $(x, y) = (-1, 4)$ and $(4, 4)$.

$(x, y) =$ $(-5, 0)$

$\frac{5-1}{5-3} = \frac{4}{8} = \frac{1}{2}$

$y - y_1 = m(x - x_1)$

$\frac{4-4}{4-(-1)} = \frac{0}{5} = 0$

$y - 5 = \frac{1}{2}(x - 5)$

$y - 5 = \frac{1}{2}x - \frac{5}{2}$

$-\frac{5}{2} + \frac{5 \cdot 2}{2}$

$-\frac{5}{2} + \frac{10}{2} = \frac{5}{2}$

$y = \frac{1}{2}x + \frac{5}{2}$

$y - 4 = 0(x - 4)$

$y - 4 = 0x - 4$

$y = 0x + 0$

$0x + 0 = \frac{1}{2}x + \frac{5}{2}$

$-\frac{1}{2}x = \frac{5}{2}$

$\frac{5}{2} \cdot -2 = -\frac{10}{5} = -5$

$-\frac{1}{2}$

$x = -5$

$y = \frac{1}{2}(-5) + \frac{5}{2}$

$y = -\frac{5}{2} + \frac{5}{2} = 0$

Math 34A Winter 2020
Quiz #2b

No calculators

PRINT NAME Idalis Ortega

PERM NUMBER 8358939

Put your answer in the box provided.

TA: ☒ Garo ☐ Trevor ☐ Sam **Time:** ☐ 8am ☐ 6pm ☒ 5pm ☐ 7pm

1. Find the (x, y) coordinates of the point of intersection between:
   - the line connecting the points $(x, y) = (-3, 1)$ and $(5, 5)$, and
   - the line connecting the points $(x, y) = (-1, 4)$ and $(4, 4)$.

$(x, y) = \left(\frac{11}{3}, \frac{23}{3}\right)$

1) $\frac{-3-5}{1-5} = \frac{-8}{-4} = 2$

$y = mx + b$ $\quad 5 = -2(5) + b$

$y = -2x + b$ $\quad 5 = -10 + b$

$b = 15$

$y = -2x + 15$

2) $\frac{-1-4}{4-4} = \frac{-5}{0} = 0$

$y = mx + b$ $\quad y = x + 4$

$4 = 0(4) + b$

$b = 4$

$x + y = -2x + 15$

$+2x \quad +2x$

$3x + y = 15$

$-y \quad -y$

$\frac{3x}{3} = \frac{11}{3}$

$y = -2\left(\frac{11}{3}\right) + 15$

$\frac{-2}{1} \times \frac{11}{3} = \frac{-22}{3} + 15$

$-\frac{22}{3}$

$\frac{15}{1} \times \frac{3}{3} = \frac{45}{3}$ $\quad -\frac{22}{3} + \frac{45}{3} = \frac{23}{3}$

$15 \quad 45$

$+3 \quad -22$

$45 \quad 23$

Math 34A Winter 2020
Quiz #2b

No calculators

PRINT NAME Matthew Ogden

PERM NUMBER 9483959

Put your answer in the box provided.

TA: ■ Garo ☐ Sam ☐ Trevor

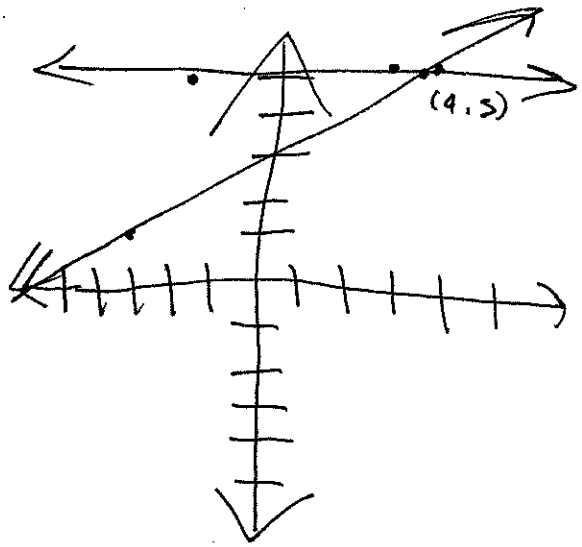
Time: ☐ 8am ■ 5pm ☐ 6pm ☐ 7pm

1. Find the (x, y) coordinates of the point of intersection between:
   - the line connecting the points $(x, y) = (-3, 1)$ and $(5, 5)$, and
   - the line connecting the points $(x, y) = (-1, 4)$ and $(4, 4)$.

$(x, y) =$ $(4, 5)$

Slope $= \frac{y_2 - y_1}{x_2 - x_1}$ $\quad y = \frac{1}{2}x + b$ $\quad y = 0x + 5$

$\frac{5-1}{5+3}$ $\quad \frac{4}{8} = 1/2$



$\frac{4-4}{4+1} = \frac{0}{5} = 0$, Slope

$\frac{1}{2}x + 3 = 5$

$x = 4$

Math 34A Winter 2020
Quiz #2b

No calculators

PRINT NAME Sophia McMahon

PERM NUMBER 82266604

Put your answer in the box provided.

TA: ☑ Garo ☐ Sam ☐ Trevor

Time: ☐ 8am ☑ 5pm ☐ 6pm ☐ 7pm

1. Find the (x, y) coordinates of the point of intersection between:

   - the line connecting the points $(x, y) = (-3, 1)$ and $(5, 5)$, and
   - the line connecting the points $(x, y) = (-1, 4)$ and $(4, 4)$.

$L_1: m = \frac{5-1}{5-(-3)} = \frac{4}{8} = 1/2$

$(x, y) =$ does not exist

$y = 1/2\,x + b \quad (5,5) \rightarrow 5 = 1/2\,(5) + b \rightarrow 5 = 2.5 + b \rightarrow b = 2.5$

$y = 1/2x + 2.5$

$L_2: m = \frac{4-4}{4+1} = \frac{0}{5}$ does not exist

$y = 0/5\,x + b$

Math 34A Winter 2020
Quiz #2b

No calculators

PRINT NAME Teresa Li

PERM NUMBER 968160-2

Put your answer in the box provided.

TA: ☑ Garo ☐ Trevor ☐ Sam

Time: ☐ 8am ☑ 5pm ☐ 6pm ☐ 7pm

$\frac{y_2-y_1}{x_2-x_1}$ = slope

1. Find the (x, y) coordinates of the point of intersection between:
   - the line connecting the points $(x, y) = (-3, 1)$ and $(5, 5)$, and
   - the line connecting the points $(x, y) = (-1, 4)$ and $(4, 4)$.

$(x, y) =$ (2.3, 5.04)

$\frac{5-1}{5-(-3)} = \frac{4}{8} = \frac{1}{2}$

$\frac{4-4}{4-(-1)} = \frac{1}{5} = \frac{1}{5}$

$y = mx+b$

$1 = -3 \times \frac{1}{2} + b$

$1 = -\frac{3}{2} + b$

$b = 2.5$

$\frac{1}{2}x + 2.5 = y$.

$\frac{1}{5} \times 4 + b = 4$

$\frac{4}{5} + b = 4$

$b = 4 - \frac{4}{5}$

$= 3.2$.

$y = \frac{1}{5} \cdot 4 + b$

$y = \frac{4}{5} + b$

$y = 0.8 + b$

$b = 3.2$

$\frac{1}{2}x + 2.5 = \frac{1}{5}x + 3.2$

$\frac{5}{10}x + 2.5 = \frac{2}{10}x + 3.2$

$\frac{1}{5}x + 3.2 = y$

$\frac{1}{5} + 3.2 = 4$

$-0.2 + 3.2 = 4$

$0.8 + 2.3 + 3.2$

$= 5.04$

$\frac{3}{10}x = 0.7$

$0.3x = 0.$

$x = 2$

Math 34A Winter 2020
Quiz #2b

No calculators

PRINT NAME HANNAH MILLAR

PERM NUMBER 8127482

Put your answer in the box provided. **TA:** ☒ Garo ☐ Trevor ☐ Sam **Time:** ☐ 8am ☐ 6pm ☒ 5pm ☐ 7pm

1. Find the (x, y) coordinates of the point of intersection between:
   - the line connecting the points $(x, y) = (-3, 1)$ and $(5, 5)$, and
   - the line connecting the points $(x, y) = (-1, 4)$ and $(4, 4)$.

$(x, y) =$ $\left(\frac{2}{5}, 1\right)$

L_1 $(-3,1)$ $(5,5)$

$m = \frac{y_2 - y_1}{x_2 - x_1} = \frac{5-1}{5-(-3)} = \frac{4}{8} = \frac{1}{2}$

$y = mx + b \rightarrow 5 = \frac{1}{2}(5) + b \rightarrow 5 = 2.5 + b \rightarrow b = 2.5$

$y = .5x + 2.5$

L_2 $(-1,4)$ $(4,4)$

$m = \frac{y_2 - y_1}{x_2 - x_1} = \frac{4-4}{4-(-1)} = \frac{0}{5} = 0$

$y = mx + b \rightarrow 4 = 0(4) + b \rightarrow 4 = 0 + b \rightarrow b = 4$

$y = 4x$

$.5x + 2.5 = 4x$

(x)

$2.5 = 1.5x$

$x = \frac{1.5}{2.5} \cdot \frac{2}{2} = \frac{2}{5}$

(y)

$L_2 : \quad y = 4\left(\frac{2}{5}\right)$

$y = 4\left(\frac{1}{5}\right)$

$y = 1$

Math 34A Winter 2020
Quiz #2b

No calculators

PRINT NAME Jim Ortiz

PERM NUMBER
8069890

Put your answer in the box provided.

TA: ☑ Garo ☐ Trevor ☐ Sam

Time: ☐ 8am ☐ 6pm ☑ 5pm ☐ 7pm

1. Find the (x, y) coordinates of the point of intersection between:
   - the line connecting the points $(x, y) = (-3, 1)$ and $(5, 5)$, and
   - the line connecting the points $(x, y) = (-1, 4)$ and $(4, 4)$.

$y = mx + b$

$y - b = mx$

m

$L_1 = \frac{5-1}{5-3} = \frac{4}{8} = \frac{1}{2}$

$(x, y) =$ **(3, 4)**

$L_2 = \frac{4-4}{4-1} = \frac{0}{5} = 0$

$\frac{y-2.5}{.5} = \frac{y-4}{4}$

$L_1: 5 = \frac{1}{2} \cdot 5 + b$

$y - 3 = y - 1$
$+3$

$5 = 2.5 + b$
$-2.5 \quad -2.5$

$0 \cdot x + 4 = \frac{1}{2} \cdot x + 2.5$

$L_1:$ **$2.5 = b$**

$0 + 4 = \frac{1}{2} \cdot x + 2.5$

$L_2: 4 = 0 \cdot 4 + b$

$4 = \frac{1}{2} \cdot x$

$4 = 0 + b$
$-0 \quad -0$

$4 = .5x + 2.5$
$2.5 \qquad -2.5$

$L_2:$ **$4 = b$**

$\frac{1.5}{.5} = \frac{.5x}{.5}$

$3 = x$

Math 34A Winter 2020
Quiz #2b

No calculators

PRINT NAME: Fatima Verdugo

PERM NUMBER: 7867286

Put your answer in the box provided.

TA: ☒ Garo ☐ Sam ☐ Trevor **Time:** ☐ 8am ☐ 5pm ☐ 6pm ☐ 7pm

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1. Find the (x, y) coordinates of the point of intersection between:

   - the line connecting the points $(x, y) = (-3, 1)$ and $(5, 5)$, and
   - the line connecting the points $(x, y) = (-1, 4)$ and $(4, 4)$.

$(x, y) =$ $(3, 4)$

L_1: $(x_1, y_1) + (x_2, y_2)$ $(-3, 1) + (5, 5)$

$\frac{5-1}{5-(-3)} = \frac{4}{8} = 0.5$

$y - y_0 = m(x - x_0)$

$y - 5 = 0.5(x - 5)$

$y - 5 = 0.5x - 2.5$

$+5 \quad +5$

$y = 0.5x + 2.5$

L_2: $(x_1, y_1) + (x_2, y_2)$ $(-1, 4) + (4, 4)$

$\frac{4-4}{4-(-1)} = \frac{0}{5} = 0$

$y_1 - y_0 = m(x - x_0)$

$y - 4 = 0(x - 4)$

$y - 4 = 0 - 0$

$y - 4 = 0 \quad +4$

$+4$

$y = 4$

$0.5x + 2.5 = 4$

$-2.5 \quad -2.5$

$\frac{0.5x}{0.5} = \frac{1.5}{0.5}$

$x = 3$

$y = 0.5(3) + 2.5$

$y = 1.5 + 2.5$

$y = 4$

Math 34A Winter 2020
Quiz #2b

No calculators

Toby Zinner
PRINT NAME

PERM NUMBER
793092-8

Put your answer in the box provided.

TA: ☒ Garo ☐ Trevor ☐ Sam **Time:** ☐ 8am ☐ 5pm ☒ 6pm ☐ 7pm

1. Find the (x, y) coordinates of the point of intersection between:
   - the line connecting the points $(x, y) = (-3, 1)$ and $(5, 5)$, and
   - the line connecting the points $(x, y) = (-1, 4)$ and $(4, 4)$.

$(x, y) =$ $(3, 4)$

1) $\frac{5-1}{5-3} = \frac{4}{8} = \frac{1}{2}$

$y - 1 = \frac{1}{2}(x - -3)$

$y - 1 = \frac{1}{2}x + \frac{3}{2}$

$y = \frac{1}{2}x + \frac{5}{2}$

2) $\frac{4-4}{4--1} = 0$

$y - 4 = 0(x + 1)$

$y - 4 = 0$

$y = 4$

$4 = \frac{1}{2}x + \frac{5}{2}$

$\frac{3}{2} = \frac{1}{2}x$

$3 = x$

Math 34A Winter 2020
Quiz #2b

No calculators

Sofia Dominguez
PRINT NAME

PERM NUMBER
7214869

Put your answer in the box provided.

TA: ☒ Garo ☐ Trevor ☐ Sam **Time:** ☐ 8am ☒ 6pm ☐ 5pm ☐ 7pm

1. Find the (x, y) coordinates of the point of intersection between:
   - the line connecting the points $(x, y) = (-3, 1)$ and $(5, 5)$, and
   - the line connecting the points $(x, y) = (-1, 4)$ and $(4, 4)$.

$(x, y) =$ $(3, 4)$

$(-3,1)(5,5)$

$\frac{5-1}{5+3} = \frac{4}{8} = \frac{1}{2}$

$y = 1/2x + b$

$1 = (1/2)\cdot 3 + b$

$-b = -3/2 - 1/2$

$-b = -5/2$

$b = 5/2$

$y = 1/2x + 5/2$

$(-1,4)(4,4)$

$\frac{4-4}{4+1} = \frac{0}{5}$

0

$y = 0x + b$

$4 = 0(4) + b$

$b = 4$

$y = 0x + 4$

$1/2x + \frac{5}{2} = 0x + 4$

$\frac{5}{2} - 4 = 0x - \frac{1}{2}x$

$\frac{5-8}{2} = -1/2x$

$\frac{-3}{2} = -1/2x$

$-2/1$

$\frac{6}{2} = x$

$x = 3$

$y = 1/2(3) + 5/2$

$y = \frac{3}{2} + \frac{5}{2}$

$y = \frac{8}{2}$

$y = 4$

Math 34A Winter 2020
Quiz #2b

No calculators

PRINT NAME Kassie Duarte

PERM NUMBER 8285189

Put your answer in the box provided. TA: ☒ Garo ☐ Sam ☐ Trevor Time: ☐ 8am ☐ 5pm ☒ 6pm ☐ 7pm

1. Find the (x, y) coordinates of the point of intersection between:

   - the line connecting the points $(x, y) = (-3, 1)$ and $(5, 5)$, and
   - the line connecting the points $(x, y) = (-1, 4)$ and $(4, 4)$.

$(-3,1)$ $(5,5)$ m $\quad y-y_1=m(x-x_1)$

$\frac{5-1}{5-(-3)}=\frac{4}{8}=1/2$ $\quad y-1=1/2(x-(-3))+1$

$y=1/2x+3/2+1$ (4/2)

$y=1/2x+5/2$

$(x, y) =$ $(3, 4)$

$(-1,4)$ $(4,4)$

$\frac{4-4}{4-(-1)}=\frac{0}{5}$ $\quad y-4=0/5(x-(-1))$

$y=0/5x+4$

$1/2x+5/2=0/5x+4$

$-0/5x \quad -5/2 \quad -0/5x$

(5) $1/2x-0/5x=4-5/2 \rightarrow \frac{5}{10}x-\frac{0}{10}x=\frac{8-5}{2}$ (2)

$(\frac{10}{5})\frac{5}{10}x=\frac{3}{2}(\frac{10}{5})$

$x=\frac{30}{10} \rightarrow x=3$

$y=1/2(3)+5/2$

$y=\frac{3}{2}+\frac{5}{2} \rightarrow \frac{8}{2}=4$

$(3,4)$

Math 34A Winter 2020
Quiz #2b

No calculators

Shun Luo
PRINT NAME

PERM NUMBER
8010886

Put your answer in the box provided.

TA: ☐ Garo ☐ Trevor ☐ Sam

Time: ☐ 8am ☐ 5pm ☐ 6pm ☐ 7pm

1. Find the (x, y) coordinates of the point of intersection between:

   L_1 • the line connecting the points $(x, y) = (-3, 1)$ and $(5, 5)$, and

   L_2 • the line connecting the points $(x, y) = (-1, 4)$ and $(4, 4)$.

$(x, y) =$ 3, 4

L_1 : slope $= \frac{y_2 - y_1}{x_2 - x_1} = \frac{5-1}{5+3} = \frac{4}{8}$

L_2 : slope $= \frac{y_2 - y_1}{x_2 - x_1} = 0$

L_1: $y = \frac{4}{8}x + b$ (5)

$5 = \frac{20}{8} + b$

$\frac{40}{8} - \frac{20}{8} = b$

$\frac{20}{8} = b$

$\frac{5}{2} = b$

L_1: $y = \frac{4}{8}x + \frac{5}{2}$

L_2: $y = 0x + b$

$4 = 0(4) + b$

$4 = b$

← set equations equal to each other

$\frac{4}{8}x + \frac{5}{2} = 4(\frac{2}{2})$

$\frac{4}{8}x = \frac{8}{2} - \frac{5}{2}$

$\frac{4}{8}x = \frac{3}{2} \times \frac{8}{4}$

$x = \frac{24}{8}$

$x = 3$ ← plug back into equation

$y = \frac{4}{8}(3) + \frac{5}{2}$

$y = \frac{12}{8} + \frac{5}{2}(\frac{4}{4})$

$y = \frac{12}{8} + \frac{20}{8}$

$y = \frac{32}{8}$

$y = 4$

Math 34A Winter 2020
Quiz #2b

No calculators

Michael Bauw
PRINT NAME

PERM NUMBER
9770249

Put your answer in the box provided.

TA: ☑ Garo ☐ Trevor ☐ Sam

Time: ☐ 8am ☐ 5pm ☐ 6pm ☐ 7pm

1. Find the (x, y) coordinates of the point of intersection between:
   - the line connecting the points $(x, y) = (-3, 1)$ and $(5, 5)$, and
   - the line connecting the points $(x, y) = (-1, 4)$ and $(4, 4)$.

$(x, y) =$ $(3, 4)$

$\frac{y_2 - y_1}{x_2 - x_1}$

$y - y_0 = m(x - x_0)$

Line 1

$\frac{5-1}{5-(-3)} = \frac{4}{8} = \frac{1}{2}$

$y - 1 = \frac{1}{2}(x + 3)$

$y = \frac{1}{2}x + \frac{5}{2}$

Line 2

$\frac{4-4}{4+1} \quad \frac{0}{5}$

$y - 4 = 0(x + 1)$

$y = 4$

$4 = \frac{1}{2}x + \frac{5}{2}$

$\frac{3}{2} = \frac{1}{2}x$

$\frac{1.5}{.5} = x$

$3 = x$

$\frac{8}{2} - \frac{5}{2}$

$\frac{3}{2} =$

$4 = \frac{1}{2}(3) + \frac{5}{2}$

$4 = \frac{3}{2} + \frac{5}{2}$

$4 = \frac{8}{2} \qquad 4 = 4$

Math 34A Winter 2020
Quiz #2b

No calculators

Jucel Suero
PRINT NAME

PERM NUMBER
8194433

Put your answer in the box provided. TA: ☑ Garo ☐ Sam ☐ Trevor Time: ☐ 8am ☐ 5pm ☑ 6pm ☐ 7pm

1. Find the (x, y) coordinates of the point of intersection between:
   - the line connecting the points $(x, y) = (-3, 1)$ and $(5, 5)$, and
   - the line connecting the points $(x, y) = (-1, 4)$ and $(4, 4)$.

$(x, y) =$ $(4, 4)$

$(-3,1)$ $(5,5)$

$\frac{5-1}{5-(-3)} = \frac{4}{8} = \frac{1}{2}$

$m = \frac{1}{2}$

$y - 1 = \frac{1}{2}(x - (-3))$

$y - 1 = \frac{1}{2}x + \frac{6}{2}$

$y - 1 = \frac{1}{2}x + 3$

$y = \frac{1}{2}x + 4$

$(-1,4)(4,4)$

$\frac{4-4}{4-(-1)} = \frac{0}{5}$ no slope

$y - 4 = 0(x - 4)$

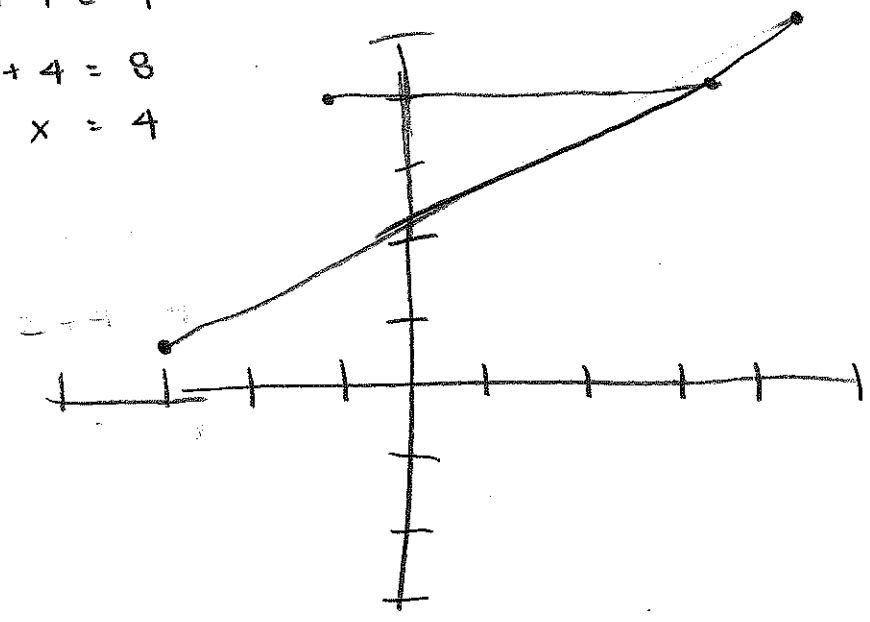
$y - 4 = 0$

$y = 4$

$2\left(\frac{1}{2}x + 4 = 4\right)$

$x + 4 = 8$

$x = 4$



Math 34A Winter 2020
Quiz #2b

No calculators

Areisy Lopez
PRINT NAME

PERM NUMBER
8213761

Put your answer in the box provided.

TA: ☒ Garo ☐ Trevor ☐ Sam **Time:** ☐ 8am ☐ 5pm ☒ 6pm ☐ 7pm

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1. Find the (x, y) coordinates of the point of intersection between:
   - the line connecting the points $(x, y) = (\overset{x_1}{-3}, \overset{y_1}{1})$ and $(\overset{x_2}{5}, \overset{y_2}{5})$, and
   - the line connecting the points $(x, y) = (\overset{x_1}{-1}, \overset{y_1}{4})$ and $(\overset{x_2}{4}, \overset{y_2}{4})$.

Line 1: $\frac{5+1}{5+3} = \frac{4}{8} = 2$

$(x, y) =$ $\left(\frac{9}{2}, 4\right)$

$y = y_1 + m(x + x_1)$
$y = 1 + 2(x + -3)$
$y = 1 + 2x - 6$
$y = 2x - 5$ → Line 1

Line 2: $\frac{4+4}{4+1} = \frac{0}{3}$

$y = 4 + \frac{0}{3}(x + -1)$
$4 + \frac{0}{3}x + \frac{0}{3}$ $\quad y = \frac{12}{3} + \frac{0}{3}x$
$3 \times \frac{4}{1 \times 3} + \frac{0}{3}$

$2x - 5 = \frac{12}{3} + \frac{0}{3}x$
$+5 \quad +5$

$\frac{15}{+12}$
27

$3 \times \frac{5}{1 \times 3} + \frac{12}{3}$

$\frac{15}{3} + \frac{12}{3} = \frac{27}{3} = 9$

$2x = +9 + \frac{0}{3}x$
$-\frac{0}{3}x$

$\frac{12}{3} + \frac{0}{3} = \frac{12}{3}$

$x = 9/2$

$\frac{2x}{2} = \frac{9}{2}$

$3 \times \frac{2x}{1 \times 3} - \frac{0}{3}x$

$\frac{6}{3}x - \frac{0}{3}x = \frac{6}{3} =$

$y = 2 \cdot \frac{9}{2} + (-5)$
$\frac{18}{2} + (-5$
$9 - 5 = 4$

Math 34A Winter 2020
Quiz #2b

No calculators

Sarah Perez Quiroz
PRINT NAME

PERM NUMBER
7781925

Put your answer in the box provided.

TA: ☑ Garo ☐ Sam ☐ Trevor **Time:** ☐ 8am ☐ 5pm ☐ 6pm ☐ 7pm

1. Find the (x, y) coordinates of the point of intersection between:
   - the line connecting the points $(x, y) = (-3, 1)$ and $(5, 5)$, and
   - the line connecting the points $(x, y) = (-1, 4)$ and $(4, 4)$.

$(x, y) =$ $(-2.5, 7)$

$(-3,1)$ $(5,5)$

$\frac{5-1}{5+3} = \frac{4}{8} = \frac{1}{2}$

$y - 5 = \frac{1}{2}(x+3)$

$y - 5 = \frac{1}{2}x - 2.5$

$+5 \quad +5$

$y = \frac{1}{2}x + 2.5$

$\frac{5}{.5} = 10$

$\frac{4}{.5} = 8$

$.5\overline{)-2.5}$

-2.5

2.5

$(-1,4)$ $(4,4)$

$\frac{4-4}{4+1} = \frac{0}{5} = 0$

$y - 4 = 0(x+1)$

$y + 4 \quad +4$

$y = x + 5$

$x + 5 = \frac{1}{2}x + 2.5$

$\frac{1}{2} - \frac{1}{2} = \frac{1}{2}$

$-\frac{1}{2}x - 5 \quad -\frac{1}{2}x$

$\frac{\frac{1}{2}x = -2.5}{\frac{1}{2}} \quad \frac{1}{2}$

$y =$

-2.5

Math 34A Winter 2020
Quiz #2b

No calculators

PRINT NAME Emily Perez

PERM NUMBER 79188605

Put your answer in the box provided.

TA: ☒ Garo ☐ Trevor ☐ Sam **Time:** ☐ 8am ☒ 6pm ☐ 5pm ☐ 7pm

1. Find the (x, y) coordinates of the point of intersection between:
   - the line connecting the points $(x, y) = (-3, 1)$ and $(5, 5)$, and
   - the line connecting the points $(x, y) = (-1, 4)$ and $(4, 4)$.

$(x, y) =$ $(3, 4)$

$\frac{5-1}{5-(-3)} = \frac{4}{8} = \frac{1}{2}$

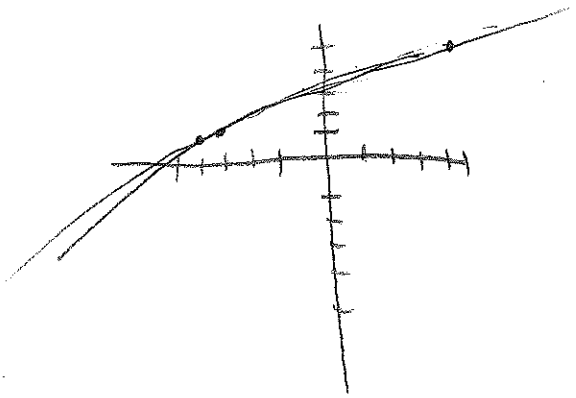
$y - y_0 = \frac{1}{2}(x - x_0)$

$y - 1 = \frac{1}{2}(x - 3)$

$y - 1 = \frac{1}{2}x - \frac{3}{2}$

$y = \frac{1}{2}x - \frac{4}{2}$

$y = \frac{1}{2}x - 2$



$\frac{4-4}{4-(-1)} = \frac{0}{5}$

$y - y_0 = \frac{0}{5}(x - x_0)$

$y - 4 = \frac{0}{5}x - 1$

$y - 4 = -5x - 1$

$y = -5x - 3$

Math 34A Winter 2020
Quiz #2b

No calculators

PRINT NAME Francisco Arrizon

PERM NUMBER
6394188

Put your answer in the box provided. **TA:** ☑ Garo ☐ Trevor ☐ Sam **Time:** ☐ 8am ☐ 5pm ☑ 6pm ☐ 7pm

---

1. Find the (x, y) coordinates of the point of intersection between:

   - the line connecting the points $(x, y) = (-3, 1)$ and $(5, 5)$, and
   - the line connecting the points $(x, y) = (-1, 4)$ and $(4, 4)$.

$(x, y) =$ (3,4)

$L_1 = \frac{5-1}{5-(-3)} = \frac{4}{8}$

$L_2 = \frac{4-4}{4-(-1)} = \frac{0}{5} = 0$

L_1 $y - y_0 = m(x - x_0)$

L_1 $y - 5 = 4/8(x - 5) + 5$

$+5$

$y = 4/8x - 20/8 + 40/8$

L_1 $y = 4/8x + 20/8$

L_2 $y = x + 4$

L_2 $y - 4 = 0(x - 4)$

$y = x + 4$

$4/8x + 20/8 = x + 4$

$-4/8x - 20/8 + 1x - 20/8$

$3/8x = 12/8$

$\frac{3/8x}{3/8} = \frac{3/2 \cdot \frac{3}{1}}{\frac{3}{1}} = \frac{6}{2} = 3$

Math 34A Winter 2020
Quiz #2b

Fida Garcia
PRINT NAME

PERM NUMBER
7434723

No calculators

Put your answer in the box provided.

TA: ☐ Garo ☐ Trevor ☐ Sam

Time: ☐ 8am ☐ 6pm ☒ 5pm ☒ 7pm
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1. Find the (x, y) coordinates of the point of intersection between:

   - the line connecting the points $(x, y) = (-3, 1)$ and $(5, 5)$, and
   - the line connecting the points $(x, y) = (-1, 4)$ and $(4, 4)$.

$(x, y) =$ $\frac{9}{2}, 4$

(3,1) (5,5)
x y x_2 y_2

$\frac{5-1}{5-3} = \frac{4}{2} = 2$

$y - 1 = 2(x - 3)$
$y - 1 = 2x - 6$
$+1 \quad +1$
$y = 2x - 5$

$2x - 5 = 4$
$+5 \quad +5$
$\frac{2x}{2} = \frac{9}{2}$
$x = \frac{9}{2}$

$\frac{4-4}{4-(-1)} = \frac{0}{5}$ x y x_2 y_2

$y - 4 = 0(x - (-1))$
$y - 4 = 0(x + 1)$
$y - 4 = 0 + 0$
$+4$
$y = 4$

$y = 2\left(\frac{9}{2}\right) - 5$
$y = \frac{18}{2} - 5$
$y = 9 - 5$
$y = 4$

Math 34A Winter 2020
Quiz #2b

No calculators

PRINT NAME: Shayan Meghsoudi

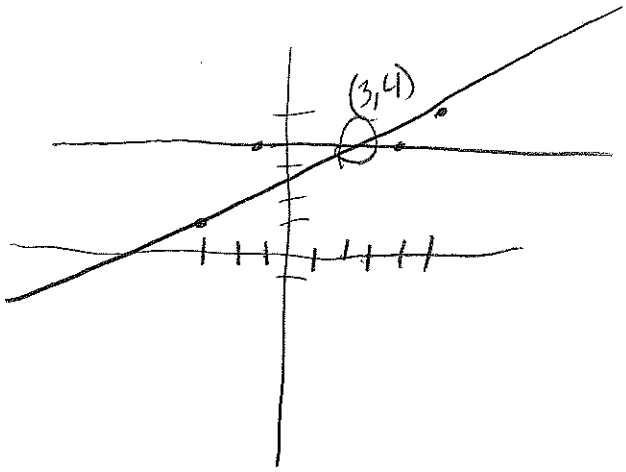
PERM NUMBER: 8112625

Put your answer in the box provided. **TA:** ☒ Garo ☐ Sam ☐ Trevor **Time:** ☐ 8am ☐ 5pm ☐ 6pm ☒ 7pm

1. Find the (x, y) coordinates of the point of intersection between:

   - the line connecting the points $(x, y) = (-3, 1)$ and $(5, 5)$, and
   - the line connecting the points $(x, y) = (-1, 4)$ and $(4, 4)$.

$(x, y) =$ $(3, 4)$



$\frac{5-1}{5+3} = \frac{4}{8} = \frac{1}{2}$ $y - 1 = \frac{1}{2}(x+3)$ $y - 1 = \frac{1}{2}x + \frac{3}{2}$ $+1$ $y = \frac{1}{2}x + \frac{5}{2}$

$\frac{4-4}{4+1} = \frac{0}{5} = 0$ $y - 4 = 0(x+1)$ $y = 4$

$4 = \frac{1}{2}x + \frac{5}{2}$ $-\frac{5}{2}$

$\frac{3}{2} = \frac{1}{2}x \cdot 2$ $x = \frac{6}{2} = 3$

$2\frac{1}{2}$

Math 34A Winter 2020
Quiz #2b

No calculators

Amanda Legaspi
PRINT NAME

PERM NUMBER
6713598

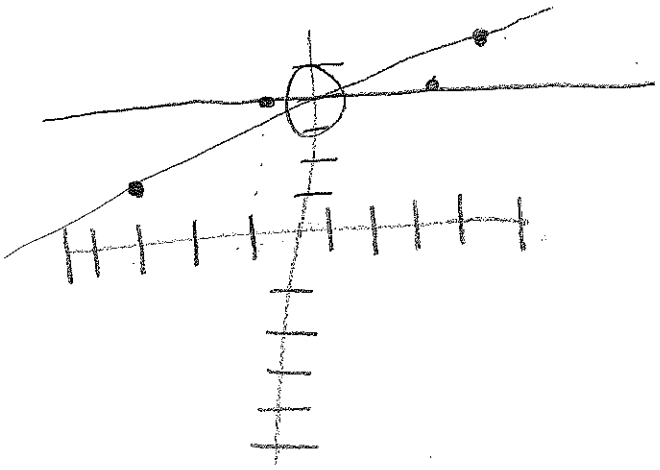
Put your answer in the box provided.

TA: ☒ Garo ☐ Trevor ☐ Sam

Time: ☐ 8am ☐ 6pm ☐ 5pm ☒ 7pm

1. Find the (x, y) coordinates of the point of intersection between:
   - the line connecting the points $(x, y) = (\overset{x_1}{-3}, \overset{y_1}{1})$ and $(\overset{x_2}{5}, \overset{y_2}{5})$, and
   - the line connecting the points $(x, y) = (\overset{x_1}{-1}, \overset{y_1}{4})$ and $(\overset{x_2}{4}, \overset{y_2}{4})$.

$(x, y) =$ $(0, 4)$



$(0, 4)$

$$\frac{5-1}{5-\text{-}3} = \frac{4}{8} = \frac{1}{2}$$

$$\frac{4-4}{4+1} = \frac{0}{4}$$

Math 34A Winter 2020
Quiz #2b

No calculators

PRINT NAME Anisa Nieto

PERM NUMBER 7873243

Put your answer in the box provided.

TA: ☒ Garo ☐ Trevor ☐ Sam

Time: ☐ 8am ☐ 5pm ☐ 6pm ☒ 7pm

1. Find the (x, y) coordinates of the point of intersection between:

   - the line connecting the points $(x, y) = (-3, 1)$ and $(5, 5)$, and
   - the line connecting the points $(x, y) = (-1, 4)$ and $(4, 4)$.

$\frac{5-1}{5-(-3)} = \frac{4}{8} = \frac{1}{2}$ $\quad y-5 = \frac{1}{2}(x-5)$

$y - 5 = \frac{1}{2}x - \frac{5}{2} + \frac{10}{2}$

$+5$

$y = \frac{1}{2}x + \frac{5}{2}$

$(x, y) =$ (3, 4)

$\frac{4-4}{4-(-1)} = \frac{0}{5} = 0$

$y - 4 = 0(x - 4)$

$y = 4$

$\frac{1}{2}x + \frac{5}{2} = 4 - \frac{5}{2}$

$-\frac{5}{2}$

$(2)\frac{1}{2}x = \frac{3}{2}(2)$

$x = 3$

$\frac{8}{2} - \frac{5}{2} = \frac{3}{2}$

Math 34A Winter 2020
Quiz #2b

No calculators

Maricruz Torres
PRINT NAME

PERM NUMBER
9597006

Put your answer in the box provided.

TA: ☑ Garo ☐ Trevor ☐ Sam

Time: ☐ 8am ☐ 6pm ☐ 5pm ☑ 7pm

1. Find the (x, y) coordinates of the point of intersection between:
   - (1) the line connecting the points $(x, y) = (-3, 1)$ and $(5, 5)$, and
   - (2) the line connecting the points $(x, y) = (-1, 4)$ and $(4, 4)$.

(1) $m = \frac{5-1}{5-(-3)} = \frac{4}{8} = \frac{1}{2}$

$y = mx + b$

$1 = \frac{1}{2}(-3) + b$

$1 = -\frac{3}{2} + b$

$\frac{5}{2} = b$

$y = \frac{1}{2}x + \frac{5}{2}$

$5 = \frac{1}{2}(5) + b$

$5 = \frac{5}{2} + b$

$-\frac{5}{2} \quad -\frac{5}{2}$

$\frac{5}{2} = b$

(2) $m = \frac{4-(-1)}{4-4} = \frac{5}{0}$ $\quad y = 4$

(1) = (2)

$\frac{1}{2}x + \frac{5}{2} = 4$

$-\frac{5}{2} \quad -\frac{5}{2}$

$\frac{1}{2}x = \frac{3}{2}$

$x = 3$

$(x, y) =$ (3, 4)

Math 34A Winter 2020
Quiz #2b

No calculators

Isabella Robbins
PRINT NAME

PERM NUMBER
9681529

Put your answer in the box provided. **TA:** ☒ Garo ☐ Trevor ☐ Sam **Time:** ☐ 8am ☐ 5pm ☐ 6pm ☒ 7pm

---

1. Find the (x, y) coordinates of the point of intersection between:
   - the line connecting the points $(x, y) = (\overset{x_1, y_1}{-3, 1})$ and $(\overset{x_2, y_2}{5, 5})$, and
   - the line connecting the points $(x, y) = (-1, 4)$ and $(4, 4)$.

$(x, y) =$ **(3, 4)**

Line #1

$\frac{5-1}{5-(-3)} = \frac{4}{8} = \frac{1}{2}$

$y = \frac{1}{2}(x) + b$

$5 = \frac{1}{2}(5) + b$

$\frac{5}{1} = \frac{5}{2} + b$

$-\frac{5}{2} \quad -\frac{5}{2}$

$\frac{10}{2} - \frac{5}{2} = b$

$b = 5/2$ → $y = 1/2\,x + 5/2$

Line #2

$\frac{4-4}{4-(-1)} = \frac{0}{5} = 0$

$y = 0(x) + b$

$4 = 0(4) + b$

$b = 4$ → $y = 0x + 4$

$y = y$

$\left(\frac{1}{2}x + \frac{5}{2}\right) = 0x + 4$

$+0x \quad -\frac{5}{2} \qquad +0x \quad -\frac{5}{2}$

$\frac{1}{2}x = \frac{8}{2} - \frac{5}{2}$

$2\left(\frac{1}{2}x\right) = \left(\frac{3}{2}\right)2$

$x = 3$

$y = \frac{1}{2}(3) + \frac{5}{2}$

$y = \frac{3}{2} + \frac{5}{2}$

$y = \frac{8}{2} = 4$

$y = 4$

Math 34A Winter 2020
Quiz #2b

No calculators

Celeste Salazar
PRINT NAME

PERM NUMBER
7342959

Put your answer in the box provided. **TA:** ☑ Garo ☐ Trevor ☐ Sam **Time:** ☑ 8am ☐ 6pm ☐ 5pm ☐ 7pm

---

1. Find the (x, y) coordinates of the point of intersection between:

- the line connecting the points $(x, y) = (-3, 1)$ and $(5, 5)$, and
- the line connecting the points $(x, y) = (-1, 4)$ and $(4, 4)$.

$(x, y) =$ $(0, 4)$

$\frac{5-1}{5+3} = \frac{4}{8} = \frac{1}{2}$

$y = \frac{1}{2}x + b$

$5 = \frac{1}{2}(5) + b$

$5 = \frac{5}{2} + b$

$-\frac{5}{2} \quad -\frac{5}{2}$

$5 - \frac{5}{2} = b$

$\frac{10}{2} - \frac{5}{2} = b$

$\frac{5}{2} = b$

$y = \frac{1}{2}x + \frac{5}{2}$

$\frac{4-4}{4+1} = \frac{0}{5} = 0$

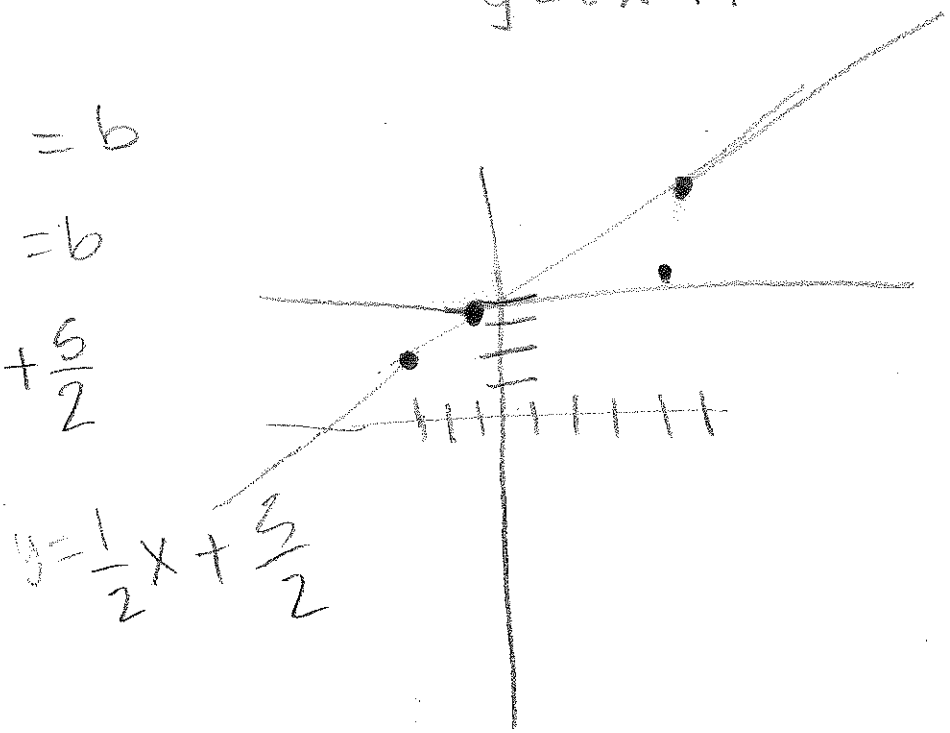
$y = 0x + b$

$4 = 0(-1) + b$

$4 = 0 + b$

$4 = b$

$y = 0x + 4$



$y = \frac{1}{2}x + \frac{5}{2}$

Math 34A Winter 2020
Quiz #2b

No calculators

PRINT NAME Jessica Flory

PERM NUMBER 9687393

Put your answer in the box provided.

TA: ☑ Garo ☐ Trevor ☐ Sam **Time:** ☑ 8am ☐ 6pm ☐ 5pm ☐ 7pm

---

1. Find the (x, y) coordinates of the point of intersection between:
   - the line connecting the points $(x, y) = (-3, 1)$ and $(5, 5)$, and
   - the line connecting the points $(x, y) = (-1, 4)$ and $(4, 4)$.

$(x, y) =$ **(13, 9)**

$y - y_1 = \text{slope}(x - x_1)$

$\frac{y_2 - y_1}{x_2 - x_1}$ $\quad \frac{5-1}{5+3} = \frac{4}{8} = \frac{1}{2}$ slope $= \frac{1}{2}$

$\frac{4-4}{4+1} = \frac{0}{5} = 0$

$y - y_1 = \frac{1}{2}(x - x_1)$

$y - 5 = \frac{1}{2}(x - 5)$

$y = \frac{1}{2}(x-5) + 5$

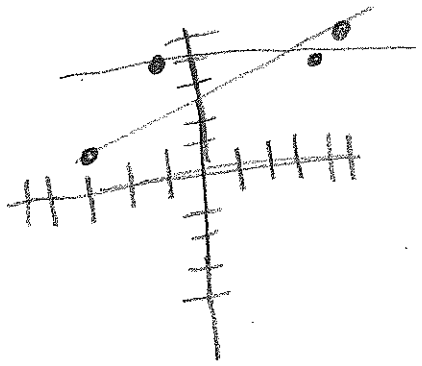
$y = \frac{1}{2}x - 2.5 + 5$

$y = \frac{1}{2}x + 2.5$

$y - 4 = 0(x - 4)$

$y = x - 4$

45.10
-2.5
2.5



$(x - 4) = \frac{1}{2}x + 2.5$

$y = 13 - 4$

$y = 9$

$x = \frac{1}{2}x$

$\frac{1}{2}x = 6.5$

$x = 13$

13
.5 | 6.5

13
×5
65

Math 34A Winter 2020
Quiz #2b

No calculators

Leslie Santoyo
PRINT NAME

PERM NUMBER
82675569

Put your answer in the box provided. **TA:** [X] Garo [ ] Trevor [ ] Sam **Time:** [X] 8am [ ] 6pm [ ] 5pm [ ] 7pm

1. Find the (x, y) coordinates of the point of intersection between:
   - the line connecting the points $(x, y) = (-3, 1)$ and $(5, 5)$, and
   - the line connecting the points $(x, y) = (-1, 4)$ and $(4, 4)$.

$(x, y) =$ $(-8, 4)$

$(-3, 1)$ $(5, 5)$

$\frac{y_2 - y_1}{x_2 - x_1} = \frac{5-1}{5-(-3)} = \frac{4}{8} \div 4 = \frac{1}{2}$

$y - y_1 = \frac{1}{2}(x - x_1)$

$y - 5 = \frac{1}{2}x - (-3)$

$+5 \quad +5$

$y = \frac{1}{2}x + 8$

$(-1, 4)$ $(4, 4)$

$\frac{4-4}{4-(-1)} = \frac{0}{4} = 0$

$y = 4$

$4 = \frac{1}{2}x + 8$

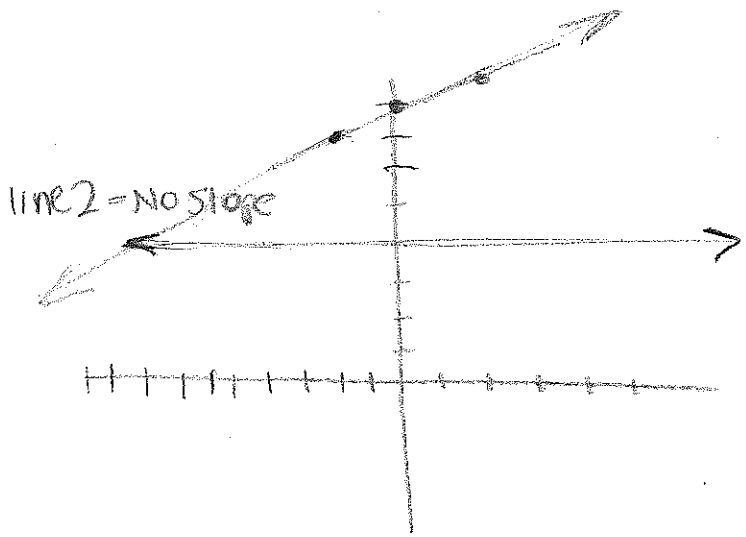
$-8 \quad -8$

$-4 = \frac{1}{2}x$

$\frac{1}{2} \quad \frac{1}{2}$

$-4 \cdot \frac{2}{1} = \frac{-8}{1} = x$

$x = -8$



Math 34A Winter 2020
Quiz #2b

No calculators

PRINT NAME Adrian Adames

PERM NUMBER 6469951

Put your answer in the box provided.

TA: ☒ Garo ☐ Trevor ☐ Sam **Time:** ☒ 8am ☐ 6pm ☐ 5pm ☐ 7pm

1. Find the (x, y) coordinates of the point of intersection between:
   - the line connecting the points $(x, y) = (-3, 1)$ and $(5, 5)$, and
   - the line connecting the points $(x, y) = (-1, 4)$ and $(4, 4)$.

$(x, y) =$ $(23, 4)$

L_1 slope $= \frac{5-1}{5+3} = \frac{4}{8} = \frac{1}{2}$

$L_1 \rightarrow y - 5 = \frac{1}{2}(x-5)$

$y = \frac{x-5}{2} - 5$

L_2 slope $= \frac{4-4}{4+1} = 0$

$L_2 \rightarrow y - 4 = 0$

$y = 4$

To find the intersection:

$4 = \frac{x-5}{2} - 5$

$4 = \frac{x-5-10}{2}$

$8 + 15 = x$

$23 = x$ $y = 4$

Math 34A Winter 2020
Quiz #2b

No calculators

Lauren Wachtel
PRINT NAME

PERM NUMBER
7926165

Put your answer in the box provided.

TA: ☒ Garo ☐ Sam ☐ Trevor **Time:** ☒ 8am ☐ 5pm ☐ 6pm ☐ 7pm

1. Find the (x, y) coordinates of the point of intersection between:
   - the line connecting the points $(x, y) = (-3, 1)$ and $(5, 5)$, and
   - the line connecting the points $(x, y) = (-1, 4)$ and $(4, 4)$.

$\frac{5-1}{5+3} = \frac{4}{8} = \frac{1}{2}$

$(x, y) =$ $(3, 4)$

$y - 5 = \frac{1}{2}(x - 5)$

$y - 5 = \frac{1}{2}x - \frac{5}{2}$
$+5 \quad +5$

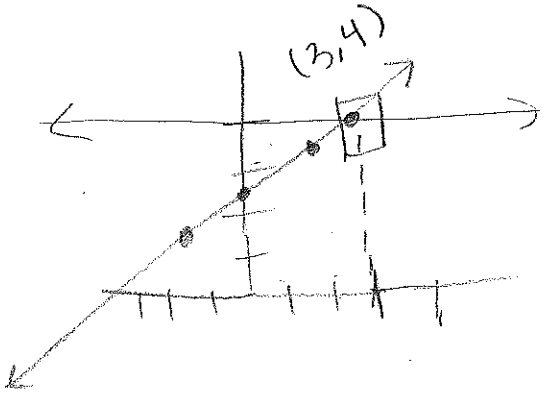
$y = \frac{1}{2}x + \frac{5}{2}$

$\frac{4-4}{4+1} = \frac{0}{5} = 0$

$y - 4 = 0(x - 4)$

$y - 4 = 0$
$+4 \quad +4$

$y = 4$



$\frac{1}{2}x + \frac{5}{2} = 4$
$-\frac{5}{2} \quad -\frac{5}{2}$

$\frac{\frac{1}{2}x}{\frac{1}{2}} = \frac{3}{2} \times \frac{2}{1} \rightarrow x = 3$

Math 34A Winter 2020
Quiz #2b

No calculators

Sarah Chavez
PRINT NAME

PERM NUMBER
9301128

Put your answer in the box provided.

TA: ☑ Garo ☐ Trevor ☐ Sam **Time:** ☑ 8am ☐ 5pm ☐ 6pm ☐ 7pm

---

1. Find the (x, y) coordinates of the point of intersection between:

- the line connecting the points $(x, y) = (-3, 1)$ and $(5, 5)$, and
- the line connecting the points $(x, y) = (-1, 4)$ and $(4, 4)$.

$(x, y) =$ $(3, 4)$

L1 → $m = \frac{5-1}{5-(-3)} = \frac{4}{8} = \frac{1}{2}$

$y - 5 = \frac{1}{2}(x - 5)$

$y - 5 = \frac{1}{2}x - \frac{5}{2} + 5$

$y = \frac{1}{2}x + \frac{5}{2}$

L2 → $m = \frac{4-4}{4-(-1)} = \frac{0}{5} = 0$

$y - 4 = 0(x - 4)$

$y = 4$

Intersect

$4 = \frac{1}{2}x + \frac{5}{2}$

$\frac{8}{2} - \frac{5}{2}$

$\frac{3}{2}$

$\frac{\frac{3}{2}}{\frac{1}{2}} = \frac{\frac{1}{2}x}{\frac{1}{2}}$

$x = 3$

Math 34A Winter 2020
Quiz #2b

No calculators

PRINT NAME	PERM NUMBER
jennifer kim	9451535

Put your answer in the box provided.

TA: ☑ Garo ☐ Trevor ☐ Sam **Time:** ☑ 8am ☐ 6pm ☐ 5pm ☐ 7pm

1. Find the (x, y) coordinates of the point of intersection between:
   - the line connecting the points $(x, y) = (-3, 1)$ and $(5, 5)$, and
   - the line connecting the points $(x, y) = (-1, 4)$ and $(4, 4)$.

$(x, y) =$ $(3, 4)$

$\frac{5-1}{5-(-3)} = \frac{4}{8} \div 4 = \frac{1}{2}$

$y = \frac{1}{2}x + b \Rightarrow y = \frac{1}{2}x + \frac{5}{2}$

$5 = \frac{1}{2}(5) + b$

$5 = \frac{5}{2} + b$

$\frac{10}{2} - \frac{5}{2} = \frac{5}{2}$

$\frac{4-4}{4-(-1)} = \frac{0}{5} = 0$

$y = 4$

$y = 0(x) + b$

$4 = (0)(4) + b$

$0 + b$

$4 = \frac{1}{2}y + \frac{5}{2}$

$4 - \frac{5}{2} \Rightarrow \frac{3}{2} = \frac{1}{2}y$

$\frac{8}{2} - \frac{5}{2} = \frac{3}{2}$

$\frac{3}{2} \cdot \frac{2}{1} = \frac{6}{2}$ $x = 3$

$\frac{1}{2}(3) = \frac{3}{2} + \frac{5}{2}$

Math 34A Winter 2020
Quiz #2b

No calculators

PRINT NAME Emma Cmino

PERM NUMBER 9601675

Put your answer in the box provided.

TA: ☑ Garo ☐ Trevor ☐ Sam **Time:** ☐ 8am ☐ 5pm ☐ 6pm ☐ 7pm

---

1. Find the (x, y) coordinates of the point of intersection between:
   - the line connecting the points $(x, y) = (-3, 1)$ and $(5, 5)$, and
   - the line connecting the points $(x, y) = (-1, 4)$ and $(4, 4)$.

$(x, y) =$ $(3, 4)$

L1 $\frac{5-1}{5+3} = \frac{4}{8} = \frac{1}{2}$

$y = 1/2x + b$

$1 = 1/2(-3) + b$

$1 = -3/2 + b$

$5/2 = b$

$y = 1/2x + 5/2$

$y = 1/2(3) + 5/2$

$y = 3/2 + 5/2$

$y = 8/2 \to 4$

L2 $\frac{4-4}{4+1} = 0$

$y = 0 + b$

$b = 4$

$y = 4$

$y = 1/2x + 5/2$

$y = 1/2x + 5/2$

$3/2 = 1/2x$

$x = 3$

$\frac{8}{2} - \frac{5}{2} = \frac{3}{2} = 1/2x$

$x = 3$

$y = 1/2(3) + 5/2$

$y = 3/2 + 5/2$

$y = 8/2$

$y = 4$

$(3, 4)$

Math 34A Winter 2020
Quiz #2b

No calculators

PRINT NAME Gurtej Bhandal

PERM NUMBER 8269979

Put your answer in the box provided. **TA:** ☑ Garo ☐ Trevor ☐ Sam **Time:** ☑ 8am ☐ 5pm ☐ 6pm ☐ 7pm

1. Find the (x, y) coordinates of the point of intersection between:

   - the line connecting the points $(x, y) = (-3, 1)$ and $(5, 5)$, and
   - the line connecting the points $(x, y) = (-1, 4)$ and $(4, 4)$.

$(x, y) =$ $(3, 4)$

L_1: $(-3,1)$ $(5,5)$

$\frac{5-1}{5--3} = \frac{4}{8} = \frac{1}{2}$ slope

$y - y_0 = \frac{1}{2}(x - x_0)$

$y - 5 = \frac{1}{2}(x - 5)$

$y = \frac{1}{2}(x-5) + 5$

$y = \frac{1}{2}x - \frac{5}{2} + \frac{10}{2}$

$y = \frac{1}{2}x + \frac{5}{2}$

L_2: $(-1,4)$ $(4,4)$

$\frac{4-4}{4--1} = \frac{0}{5} = 0$

$y - 4 = 0(x - 4)$

$y - 4 = 0$

$y = 4$

$4 = \frac{1}{2}x + \frac{5}{2}$

$\frac{8}{2} - \frac{5}{2} = \frac{1}{2}x$

$\frac{2}{1} \cdot \frac{3}{2} = \frac{1}{2}x \cdot \frac{2}{1}$

$x = 3$

$4 = \frac{1}{2} \cdot (3) + \frac{5}{2}$

$4 = \frac{3}{2} + \frac{5}{2}$

$4 = \frac{8}{2}$

$4 = 4$

Math 34A Winter 2020
Quiz #2b

No calculators

Caroline Silvera
PRINT NAME

PERM NUMBER
7434186

Put your answer in the box provided.

TA: [x] Garo [ ] Trevor [ ] Sam **Time:** [ ] 8am [ ] 5pm [ ] 6pm [x] 7pm

1. Find the (x, y) coordinates of the point of intersection between:

   $y = mx + b$

   - the line connecting the points $(x, y) = (-3, 1)$ and $(5, 5)$, and
   - the line connecting the points $(x, y) = (-1, 4)$ and $(4, 4)$. no slope?

$\frac{5-1}{5-(-3)} = \frac{4}{8} = \frac{1}{2}$

$(x, y) =$ (3, 4)

$1 = (\frac{1}{2})(-3) + b$

$1 = -1.5 + b$

$2.5 = b$

$y = \frac{1}{2}x + 2.5$

$5 = \frac{1}{2}(5) + 2.5$

$5 = 2.5 + 2.5$

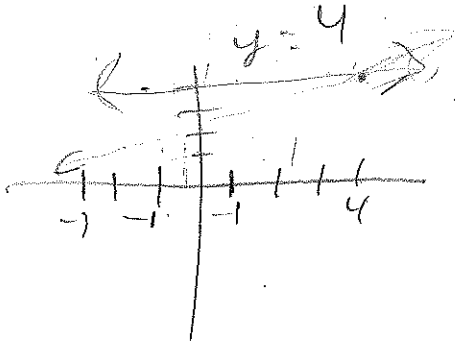
$5 = 5$ ✓

$y = \frac{1}{2}(0) + 2.5$

$1.5 + 2.5$

$y = 4$

$y = 4$



$y = 4$

$y = \frac{1}{2}x + 2.5$

$4 = 0(-1) + b$

$4 = b$

$4 = \frac{1}{2}x + 2.5$

$4 - 2.5 = \frac{1}{2}x$

$1.5 = \frac{1}{2}x$

$\frac{1.5}{0.5} = x$

$3 = x$

Math 34A Winter 2020
Quiz #2b

No calculators

AASIYAH DEANDRADE
PRINT NAME

PERM NUMBER
621090

Put your answer in the box provided.

TA: ☑ Garo ☐ Trevor ☐ Sam **Time:** ☐ 8am ☐ 5pm ☐ 6pm ☑ 7pm

1. Find the (x, y) coordinates of the point of intersection between:
   - the line connecting the points $(x, y) = (-3, 1)$ and $(5, 5)$, and
   - the line connecting the points $(x, y) = (-1, 4)$ and $(4, 4)$.

$(x, y) =$ (3, 4)

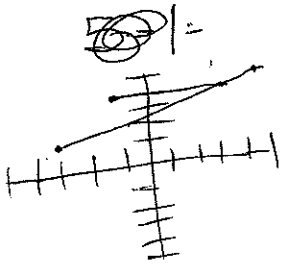
$\frac{5-1}{5--3} \quad \frac{4}{8} = \frac{1}{2}$

$\frac{4-4}{4--1} \quad \frac{0}{5} = 0$

5

x	y
-3	1
5	5

x	y
-1	4
4	4



Math 34A Winter 2020
Quiz #2b

No calculators

Taguhi Gurunyan
PRINT NAME

PERM NUMBER
7158793

Put your answer in the box provided.

TA: ☒ Garo ☐ Sam ☐ Trevor **Time:** ☐ 8am ☐ 5pm ☐ 6pm ☒ 7pm

1. Find the (x, y) coordinates of the point of intersection between:
   - the line connecting the points $(x, y) = (-3, 1)$ and $(5, 5)$, and
   - the line connecting the points $(x, y) = (-1, 4)$ and $(4, 4)$.

$(x, y) =$

$\frac{y_2 - y_1}{x_2 - x_1}$ $\quad \frac{5-1}{5+3} = \frac{4}{8} = \frac{1}{2}$ $\quad y = mx + b$ $\quad y = \frac{4.5}{5}x + \frac{1}{2}$

$5 = m5 + \frac{1}{2}$

$\frac{4-4}{4+1} = \frac{0}{5} = 0$ $\quad \frac{4.5}{5} = \frac{5m}{5}$

Math 34A Winter 2020
Quiz #2b

No calculators

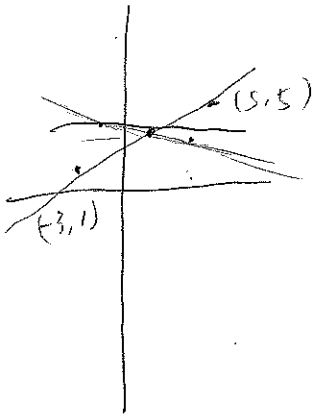
PRINT NAME Ziwei Li

PERM NUMBER 9671314

Put your answer in the box provided. **TA:** ☐ Garo ☐ Trevor ☐ Sam **Time:** ☐ 8am ☐ 5pm ☐ 6pm ☐ 7pm

1. Find the (x, y) coordinates of the point of intersection between:
   - the line connecting the points $(x, y) = (-3, 1)$ and $(5, 5)$, and
   - the line connecting the points $(x, y) = (-1, 4)$ and $(4, 4)$.

$(x, y) =$ $(3, 4)$



$$\text{slope 1} = \frac{y_2 - y_1}{x_2 - x_1} = \frac{5-1}{5-(-3)} = \frac{1}{2}$$

$y = \frac{1}{2}x + b$

$1 = \frac{-3}{2} + b$

$b = 1 - (-\frac{3}{2})$

$= \frac{5}{2}$

① $y = \frac{1}{2}x + \frac{5}{2}$

$$\text{slope 2} = \frac{y_2 - y_1}{x_2 - x_1} = \frac{4-4}{4-(-1)} = 0$$

$y = x + b$

② $y = 4$

① = ②

$\frac{1}{2}x + \frac{5}{2} = 4$

$\frac{1}{2}x = \frac{8}{2} - \frac{5}{2}$

$\frac{1}{2}x = \frac{3}{2}$

Math 34A Winter 2020
Quiz #2b

No calculators

PRINT NAME Yesenia Hernandez

PERM NUMBER 9673039

registered for sec @ 5pm w/sam
switched to 7pm w/ Garo

Put your answer in the box provided.

TA: ☑ Garo ☐ Trevor ☒ Sam

Time: ☐ 8am ☒ 5pm ☐ 6pm ☑ 7pm

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1. Find the (x, y) coordinates of the point of intersection between:
   - the line connecting the points $(x, y) = (-3, 1)$ and $(5, 5)$, and
   - the line connecting the points $(x, y) = (-1, 4)$ and $(4, 4)$.

$\frac{5-1}{5-(-3)} = \frac{4}{8}$ $\quad y - y_1 = x(x_1 - x_2)$?

$(x, y) =$ 4, 4

$\frac{4-4}{4-(-1)} = \frac{0}{5}$?