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 $(4, 4)$.

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

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

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

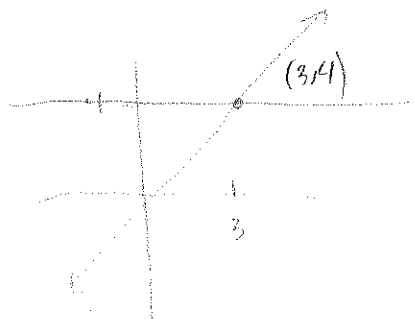
$5 = \frac{1}{2}(5) + b$

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

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

$y = 4$

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



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

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

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

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

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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 $(\overset{x_2}{4}, \overset{y_2}{4})$.

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

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

$+5$

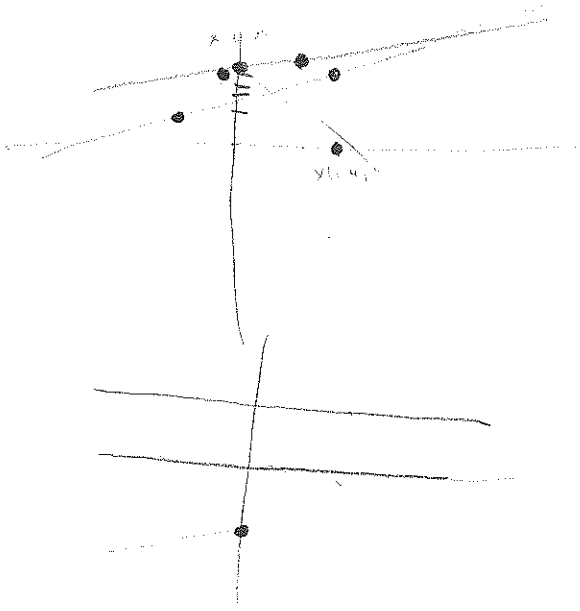
$y = \frac{1}{2}x - \frac{5}{2}$

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

$y = 9 - 5 = 4$

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

$y = 4$



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

$+5 \qquad +5$

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

$x = 18$

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

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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 $(4, 4)$.

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

$m = \frac{y_2 - y_1}{x_2 - x_1}$ 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 $(4, 4)$.

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

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

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

$y = mx + b$

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

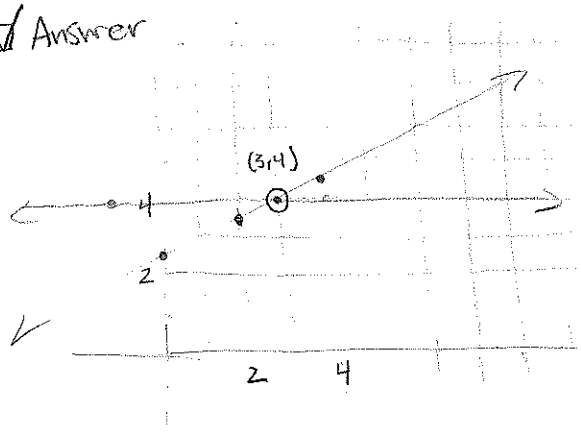
$1 = \frac{-3}{2} + b$

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

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

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

☑ 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
$(-3, 1)$ $(5, 5)$

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

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

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

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

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

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

$1 = 1.5 + b$

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

$y = 4$

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

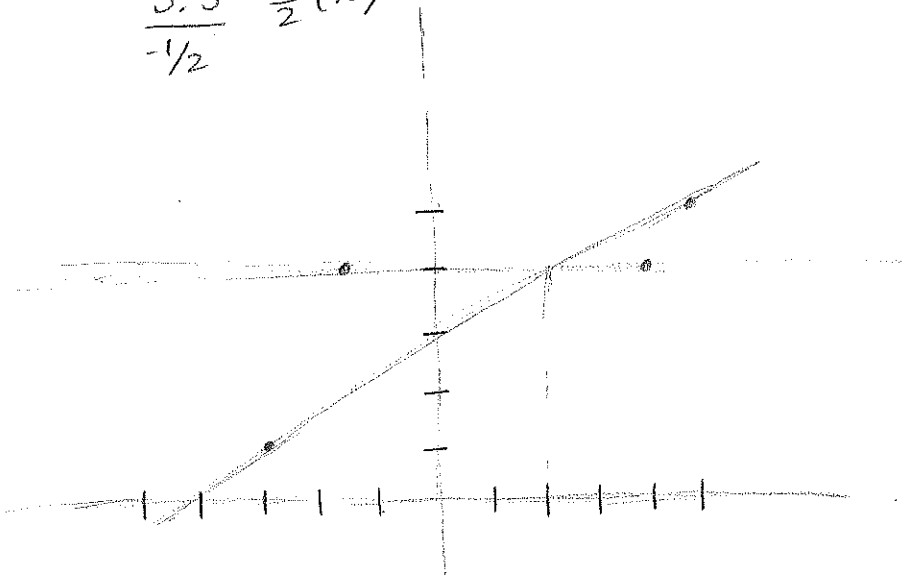
$-.5$

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

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

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

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



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

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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 $(4, 4)$.

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

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

$1 = 1.5 + b$

$+.5 \quad +.5$

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

$(x, y) =$ 2.25, 4

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

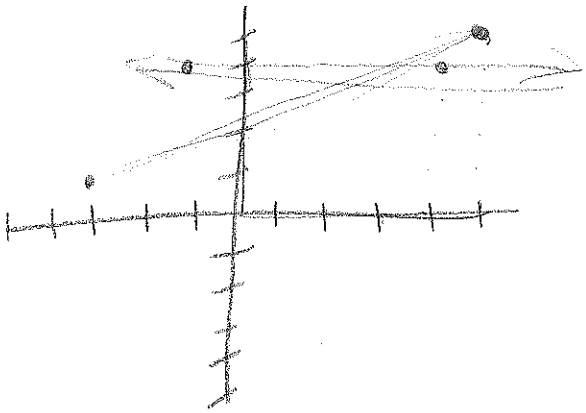
$\frac{4-4}{4+1} = \frac{0}{5} = 0$

$y = 0x + b$

$4 = 0(4) + b$

$4 = 0 + b$

$b = 0$



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

$+.5 \quad +.5$

$\frac{4.5}{2}$

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

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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 $(4, 4)$.

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

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

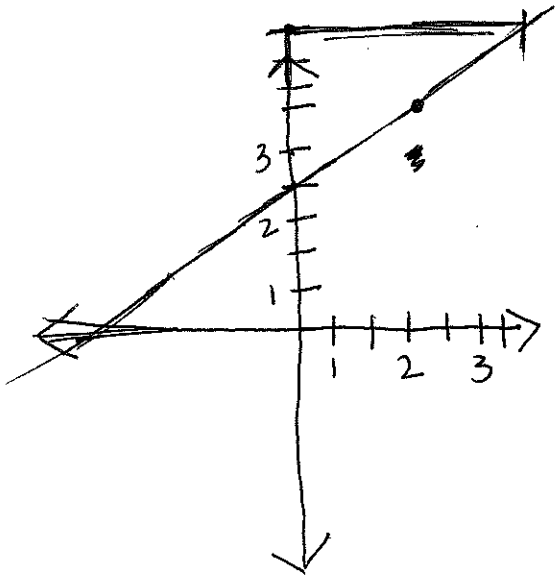
1. Find the (x, y) coordinates of the point of intersection between:
   - the line connecting the points $(x, y) = (-3, 1)$ and $(5, 5)$, and
   - the line connecting the points $(x, y) = (-1, 4)$ and $(4, 4)$.

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

$(x, y) =$ (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

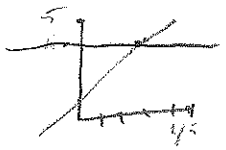
Put your answer in the box provided.

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 $(4, 4)$.

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

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

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

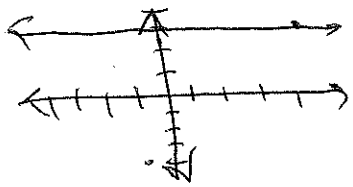
$5 = 2.5 + b$

$b = 2.5$

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

$y = 4$

$y = 4$



$(3, 4)$

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

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

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

$1 = -1.5 + b$

$+1$

$b = 2.5$

$4 = 1/2x + 2.5$

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

$x = 3$

$1.5 = 1/2x$ 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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

$x = 3$

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

$y = 0x + b$

$4 = 0(4) + b$

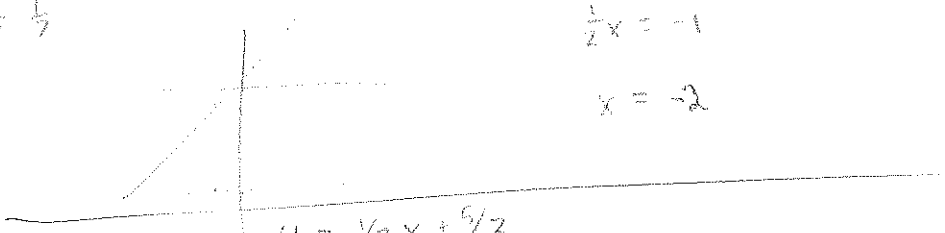
$b = 4$

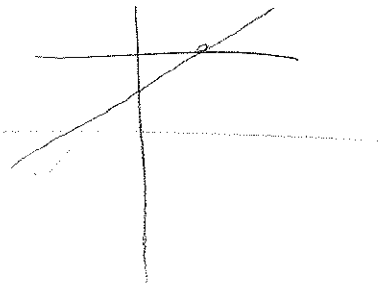
$y = 4$

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

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

$x = 3$





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

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

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

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

$y = 4$

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

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

$y - 4 = 0$

$y = 4$

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

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

$2.5 = b$

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

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

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

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

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

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

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

$3 = x$

$0 = x$

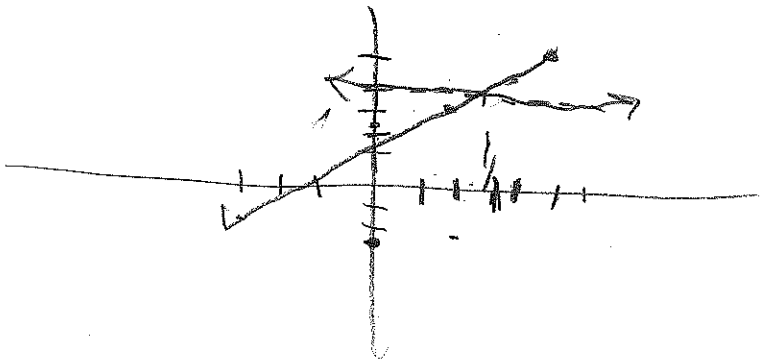
3, 4

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

$x = 3$

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

$1 + 1.5$



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

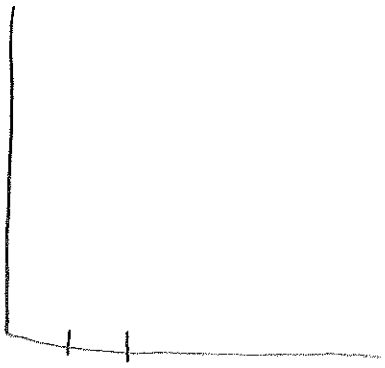
Put your answer in the box provided.

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 $(4, 4)$.

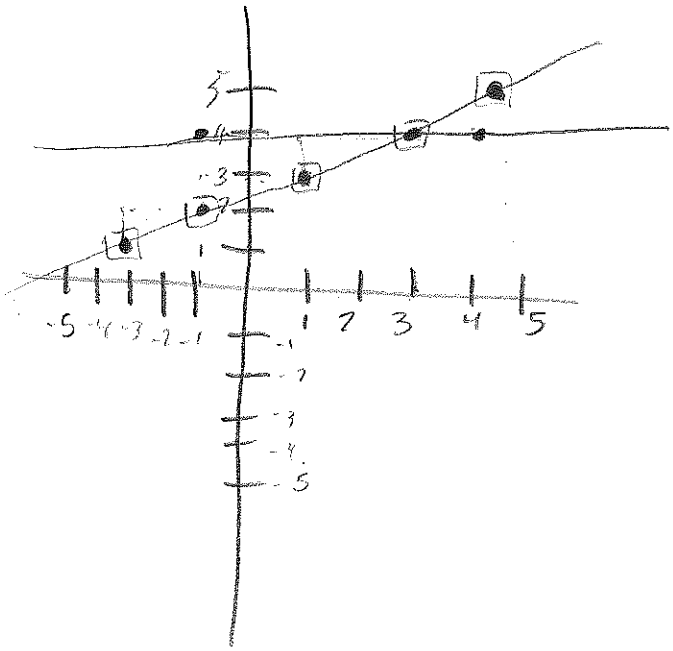
$(x, y) =$ $(3, 4)$



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

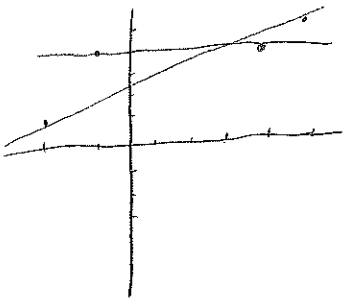
Put your answer in the box provided.

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.

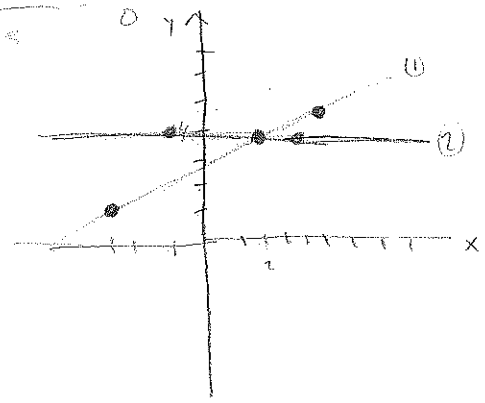
TA: ☐ Garo ☒ Trevor ☐ Sam **Time:** ☐ 8am ☒ 6pm ☐ 5pm ☐ 7pm

---

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.

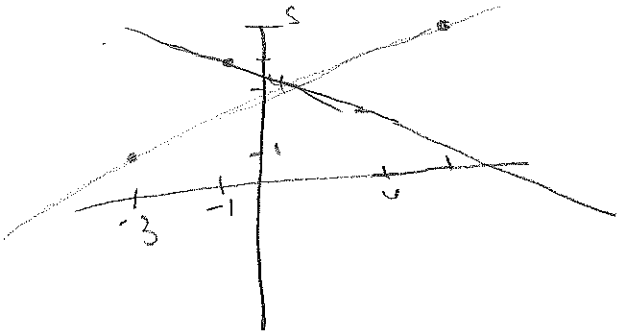
TA: ☐ Garo ☑ Trevor ☐ Sam **Time:** ☐ 8am ☑ 6pm ☐ 5pm ☐ 7pm

---

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

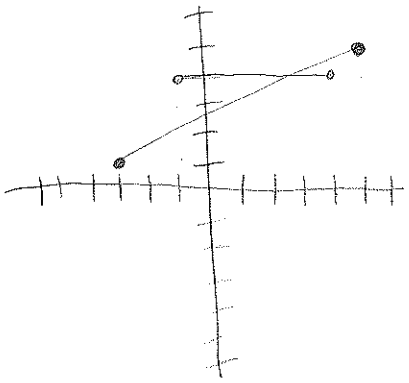
PERM NUMBER
8251738

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 $(4, 4)$.

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

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

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

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

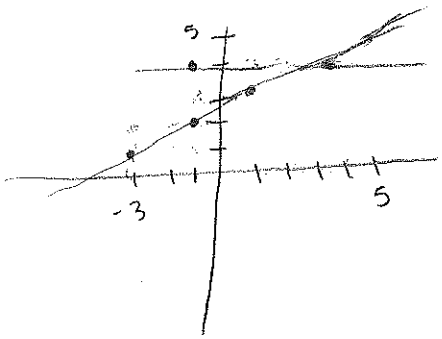
$\frac{1}{2}\left(5\right) = \frac{5}{2}$

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

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

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

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



Math 34A Winter 2020
Quiz #2b

No calculators

Samantar Essa
PRINT NAME

PERM NUMBER
9047599

Put your answer in the box provided.

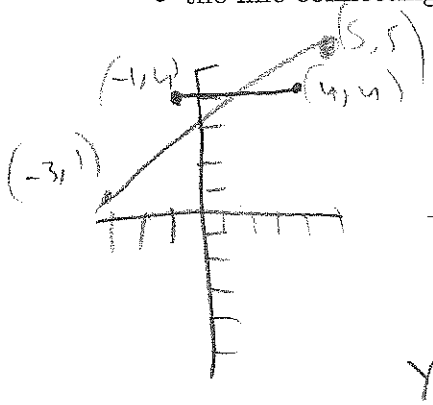
TA: ☐ Garo ☒ Trevor ☐ Sam

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)**

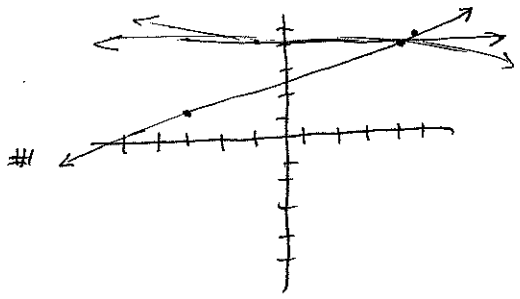
$y - 1 = \frac{4}{8}(x + 3)$

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

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

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

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



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

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

$y = 1/4x + b$

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

$3 = 5/4 + b$

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

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

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

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

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

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

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

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

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

$-1 \qquad -1$

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

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

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

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

$9 = x$

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

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

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

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

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

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

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

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

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

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

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

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

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

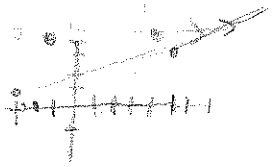
$\frac{10}{2} - \frac{5}{2} = b$

$\frac{5}{2}$

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.

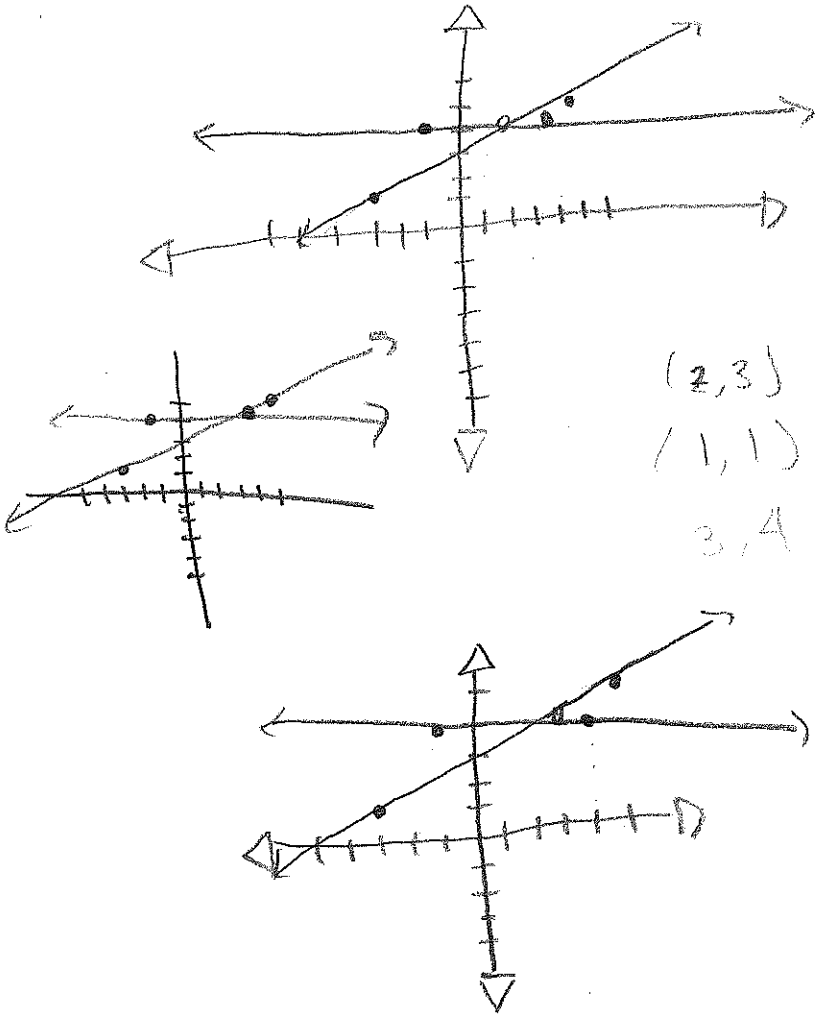
TA: ☐ Garo ☒ Trevor ☐ Sam

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 $(4, 4)$.

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

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

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

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

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

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

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

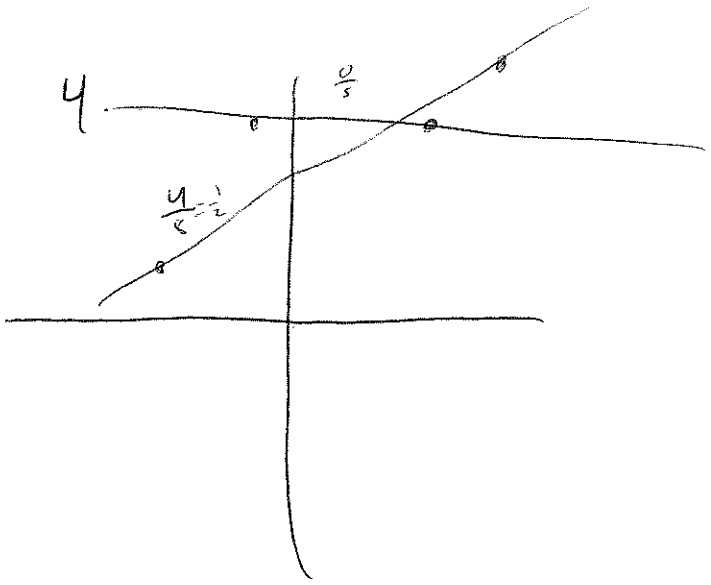
$x = 3$

$y = 4$

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

$y = 4$

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



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)

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

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

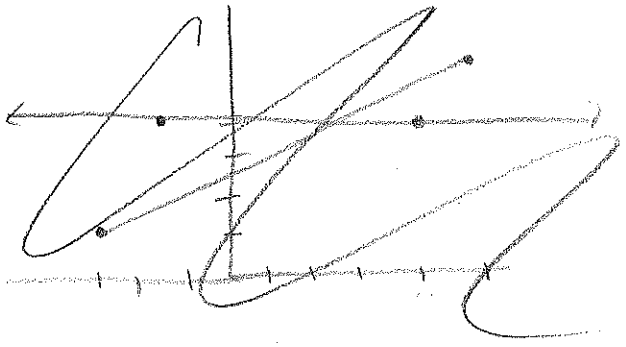
$\frac{4-4}{4-(-1)} = \frac{0}{5} = 0$

$y = 0x + b$

$4 = 0(4) + b$

$4 = b$

$y = 4$



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

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

$x = 1$

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)

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

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

$y = mx+b$

$y = 2x+b$

$1 = 2(-3)+b$

$1 = -6+b$

$7 = b$

$y = mx+b$

$y = 2x+7$

$y = mx+b$

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

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

$4 = -5+b$

$9 = b$

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

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

$y =$

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

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

$1 = x$