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 $(4, 4)$.

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

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

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

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

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

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

$+1 \quad +1$

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

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

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

$y - 4 = 0$

$y = 4$

$y = 0x + 4$?

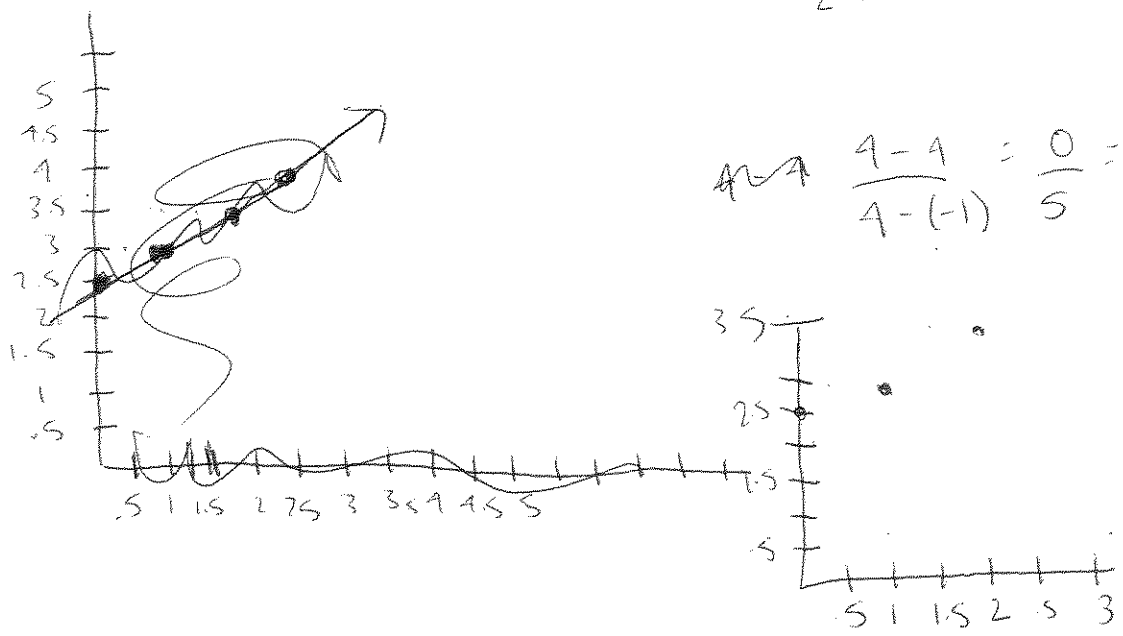
$\frac{1}{2}x + 2.5 = 4$

$-2.5 \quad -2.5$

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

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

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



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

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

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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

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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 $(4, 4)$.

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

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

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)

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

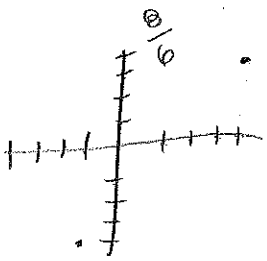
$y = \frac{1}{2}x + b$ $5 = \frac{1}{2}(5) + b$

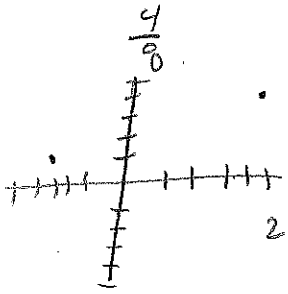
$y = \frac{1}{2}x + 2.5$ $5 = 2.5 + b$

$-2.5 \quad -2.5$

$b = 2.5$

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

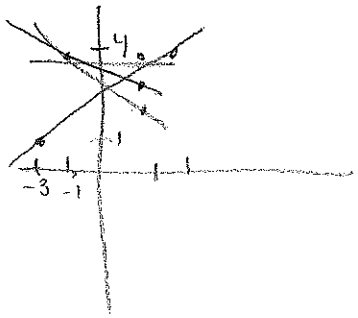
$(x, y) =$ $(3, 4)$

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

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

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

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



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

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

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

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

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

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

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

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

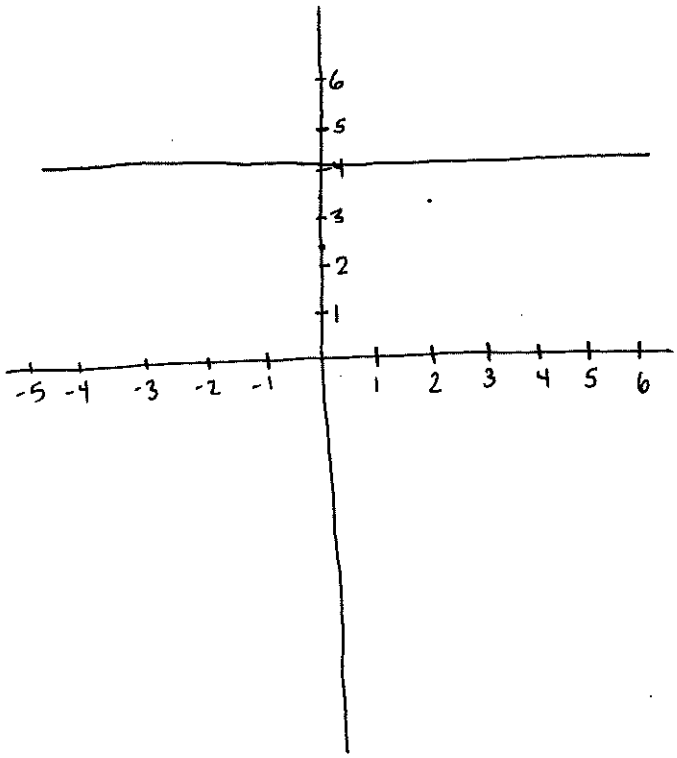
$x = 0.75$

(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)**

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

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

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

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

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

$y_2 = 4$

$y_1 =$

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

-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)

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

$y = 2x + b$ $y = 2x + 7$

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

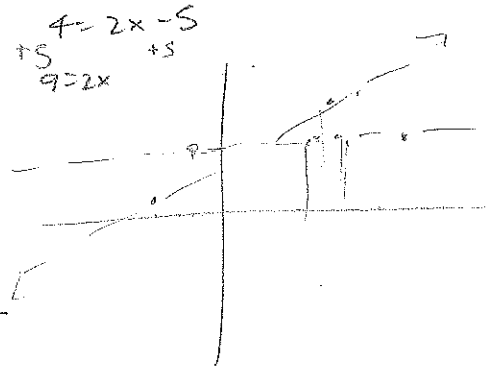
$-10 \quad -10$ $+5 \quad +5$

$9 = 2x$

$2x - 5 = x + 4$

$+5 \quad +5$

$x = 9$



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

$y = x + b$

$4 = 4 + b$

$+1 \quad -4$

$y = x + 4$

$4 = 2x - 5$

$+5$

$9/2 = x$

$2 \overline{)9}$ $\frac{4}{1}$ $\frac{1}{2}$

$\frac{8}{1}$

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

2

$y = 2x + b$

$4 = 2x + 7$

-7

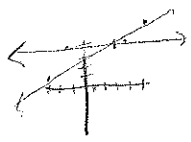
$3 = x$

$y = 2x + 7$

$2x - 5 = x + 4$

$-x \quad +5 \quad +5$

$x = 9$



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

$2 \overline{)11}$ $\frac{5.5}{10}$

$y = 4$

$y = 2x + b$

$(1) \quad (-3)$

$1 = -6 + b$

$+6 \quad 7 = b$

$4 = 2x - 7$

$+7$

$11 = 2x$

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

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

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

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

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

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

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

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

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

$x = 3$

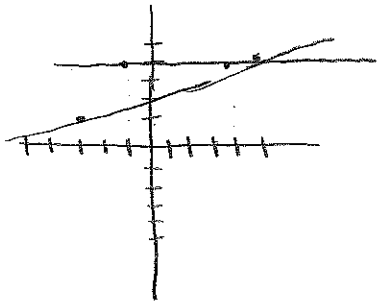
$y = \frac{1}{2}(3) + \frac{5}{2}$

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

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

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

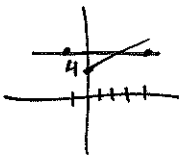
Put your answer in the box provided.

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 $(4, 4)$.

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

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

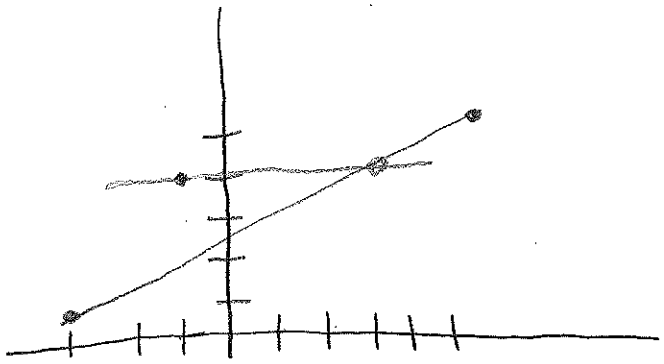
$y - 5 = \frac{1}{2}(x - 5)$

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

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

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

$y = 4$



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

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

$3 = x$

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

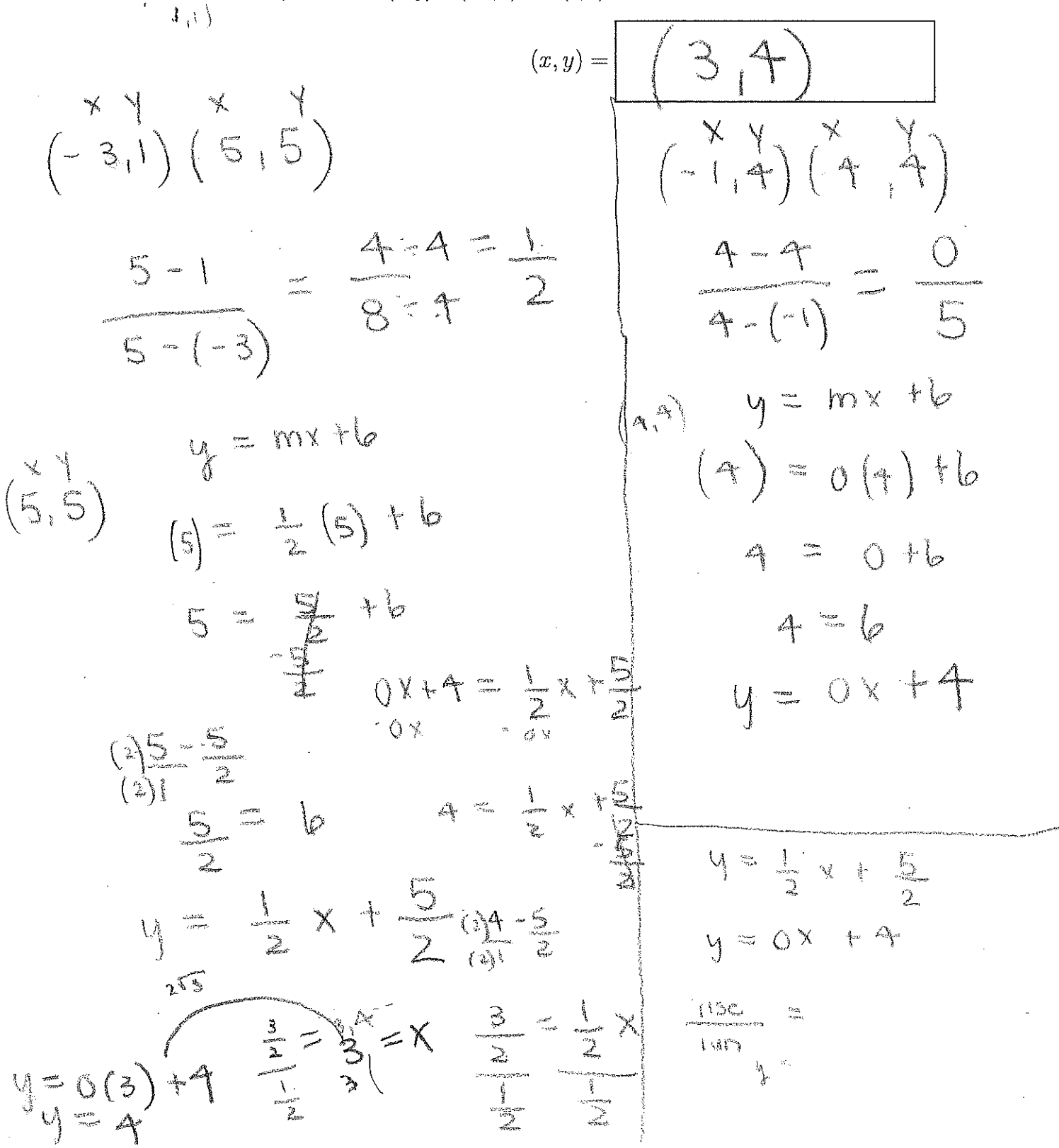
Put your answer in the box provided. **TA:** ☐ Garo ☐ Trevor **Time:** ☒ 8am ☐ 6pm ☒ 9am ☐ 5pm ☐ 7pm

---

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 $(4, 4)$.

$(x, y) =$ $(7, 4)$

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

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

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

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

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

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

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

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

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

$y - 4 = 0$

$y = 4$

$(7, 4)$

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

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

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

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

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

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

$x = 7$

$\frac{8}{2} - \frac{1}{2}$

$\frac{7}{2} = \frac{1}{2}x$

$x = 7$

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

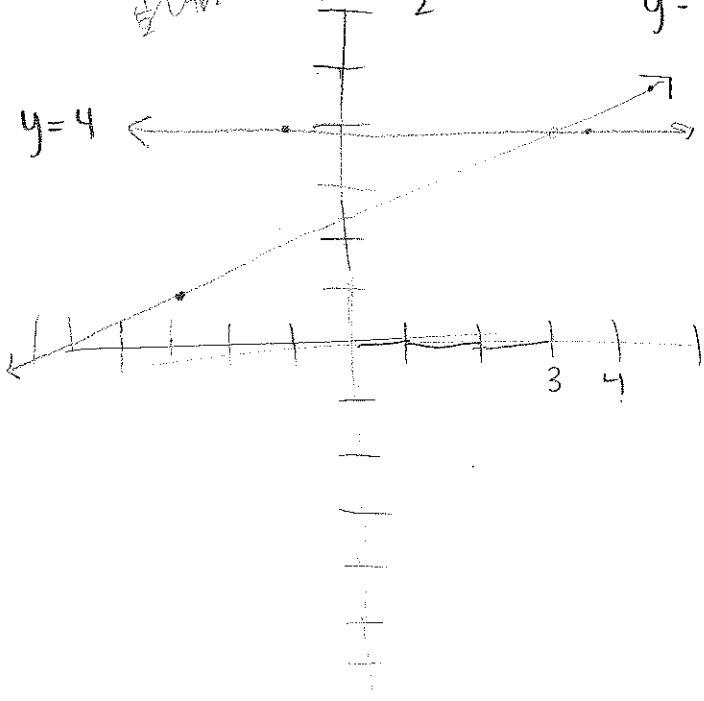
$\frac{4+4}{4+1} = \frac{0}{5}$

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

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

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

$y = 4$



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

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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 $(4, 4)$.

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

(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 $(4, 4)$.

$(x, y) =$ $(0, 0)$?

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

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

$+5$

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

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

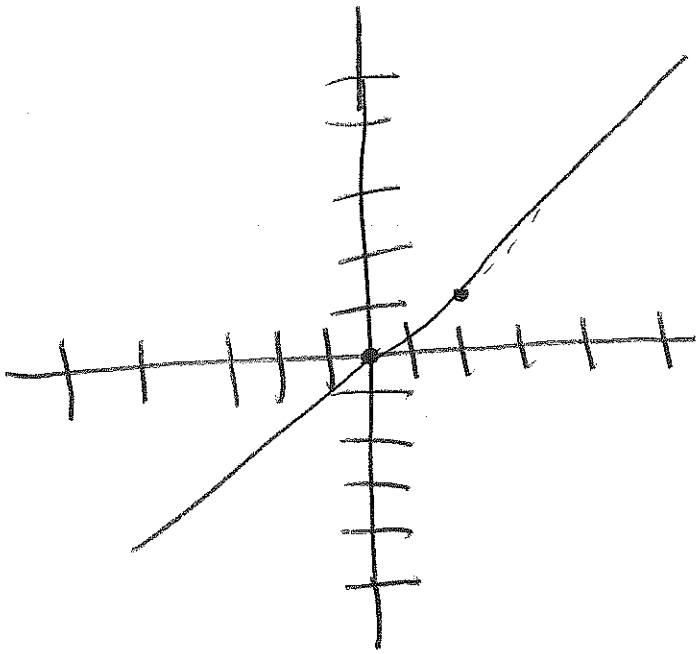
$\frac{4-4}{4-(-1)} = \frac{0}{5} = 0$ —

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

$y - 4 = x + 4$

$+4$

$y = x + 4$



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

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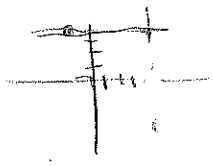
1. Find the (x, y) coordinates of the point of intersection between:
   - the line connecting the points $(x, y) = (-3, 1)$ and $(5, 5)$, and
   - the line connecting the points $(x, y) = (-1, 4)$ and $(4, 4)$.

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

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



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

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

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

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

$+ 5$

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

$= \frac{1}{2}(5) + 2.5$

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

$y = 4$

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

-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

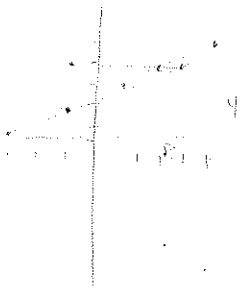
No calculators

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 $(4, 4)$.



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