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

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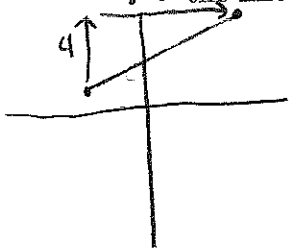
1. Find the (x, y) coordinates of the point of intersection between:

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

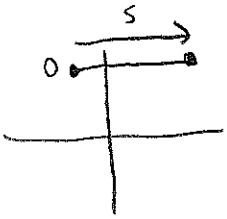


$\frac{4}{8} \to \frac{1}{2}$

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

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

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



$4 = 0(4) + b$

$y = 4$

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

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

$x = 3$

$(x, y) =$ (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

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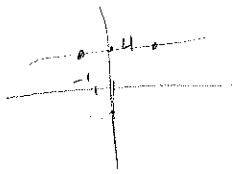
1. Find the (x, y) coordinates of the point of intersection between:



- 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

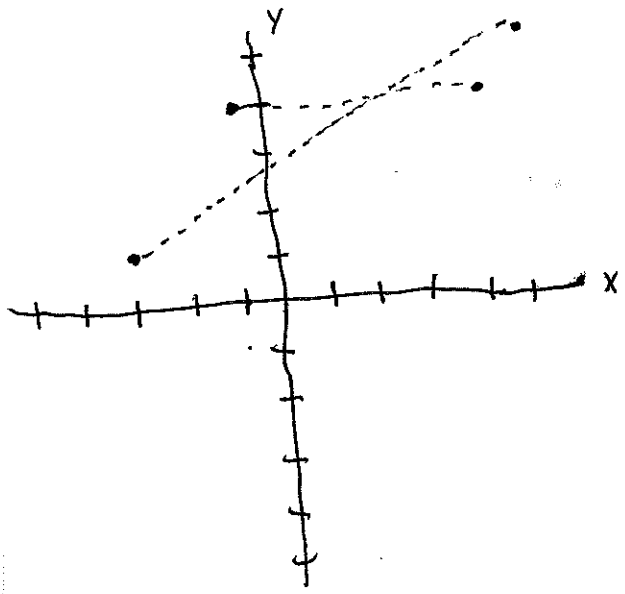
Put your answer in the box provided.

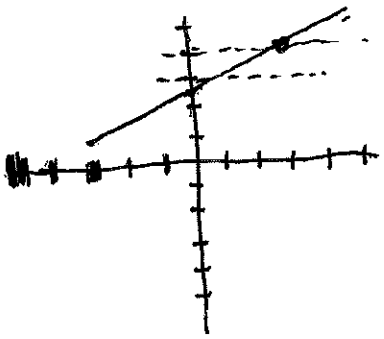
TA: ☑ Garo ☐ Trevor ☐ Sam

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

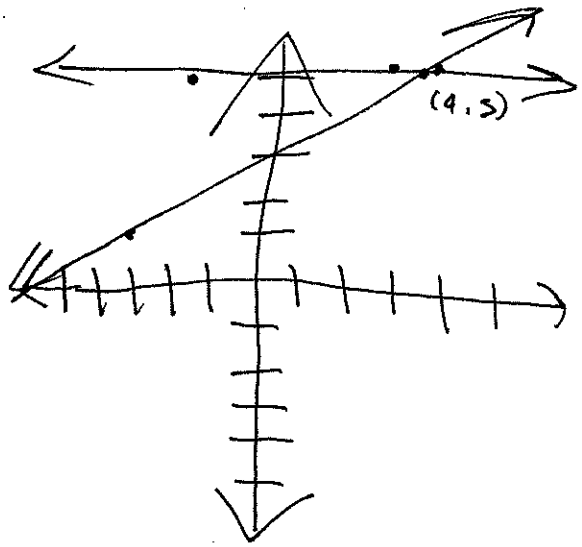
Time: ☐ 8am ■ 5pm ☐ 6pm ☐ 7pm

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

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

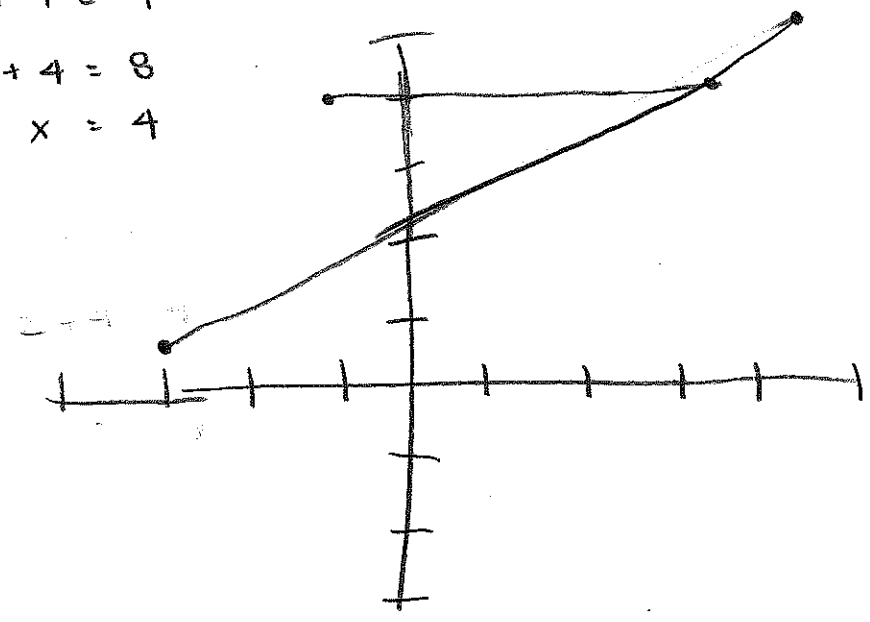
$y - 4 = 0$

$y = 4$

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

$x + 4 = 8$

$x = 4$



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

---

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 $(4, 4)$.

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

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

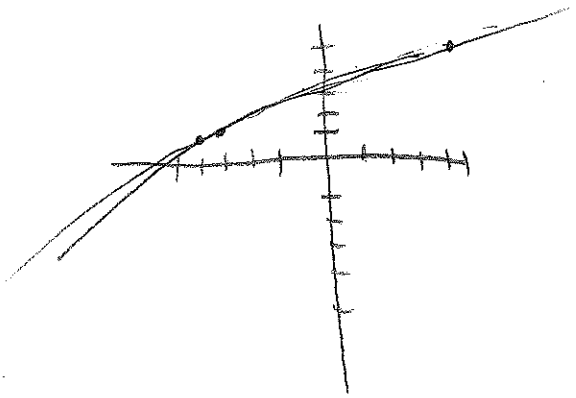
$y - y_0 = \frac{1}{2}(x - x_0)$

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

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

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

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



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

$y - y_0 = \frac{0}{5}(x - x_0)$

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

$y - 4 = -5x - 1$

$y = -5x - 3$

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
enrolled (AH ends

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

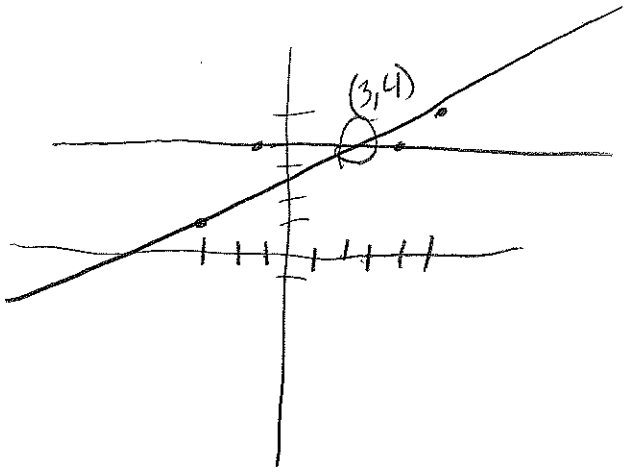
PERM NUMBER: 8112625

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

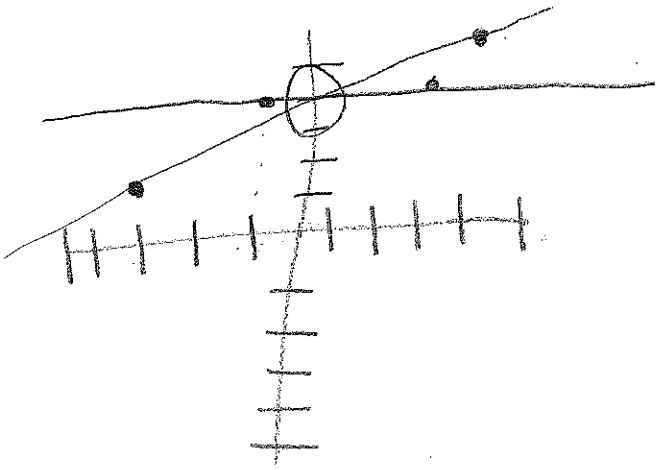
Put your answer in the box provided.

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 $(4, 4)$.

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

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

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

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

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

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

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

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

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

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

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

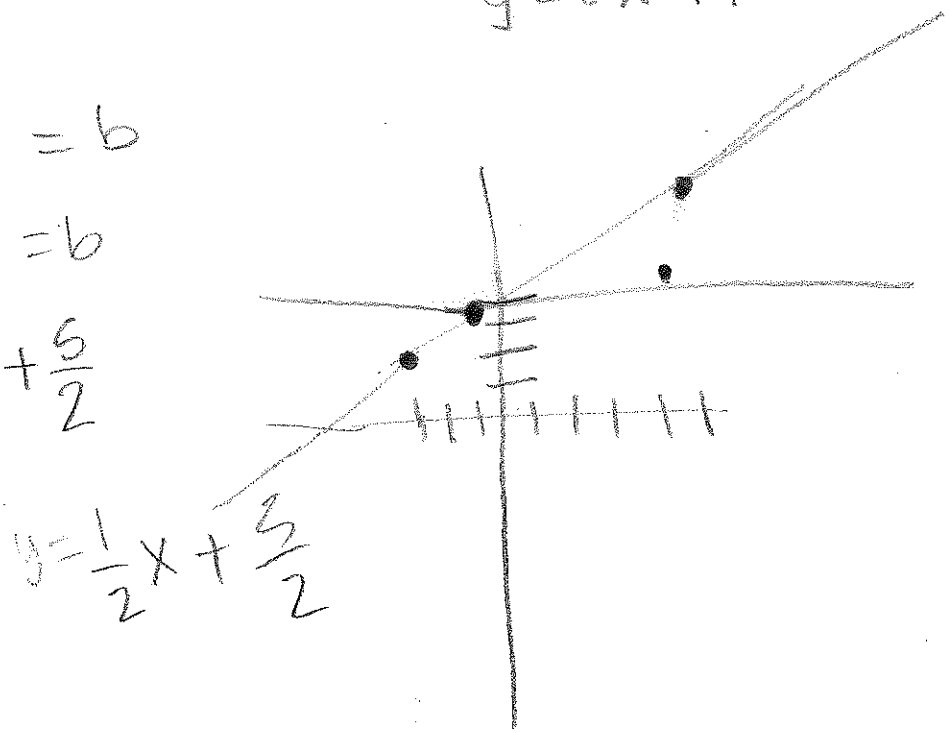
$y = 0x + b$

$4 = 0(-1) + b$

$4 = 0 + b$

$4 = b$

$y = 0x + 4$



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

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 $= \frac{1}{2}$

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

$y - y_1 = \frac{1}{2}(x - x_1)$

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

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

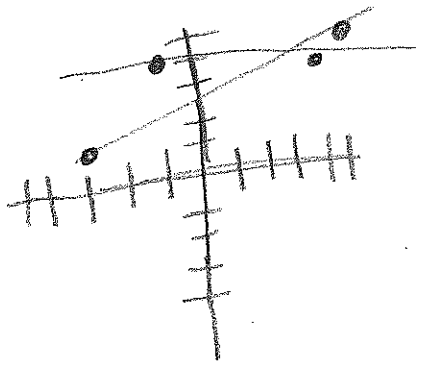
$y = \frac{1}{2}x - 2.5 + 5$

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

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

$y = x - 4$

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 $(4, 4)$.

$(x, y) =$ $(-8, 4)$

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

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

$y - y_1 = \frac{1}{2}(x - x_1)$

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

$+5 \quad +5$

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

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

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

$y = 4$

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

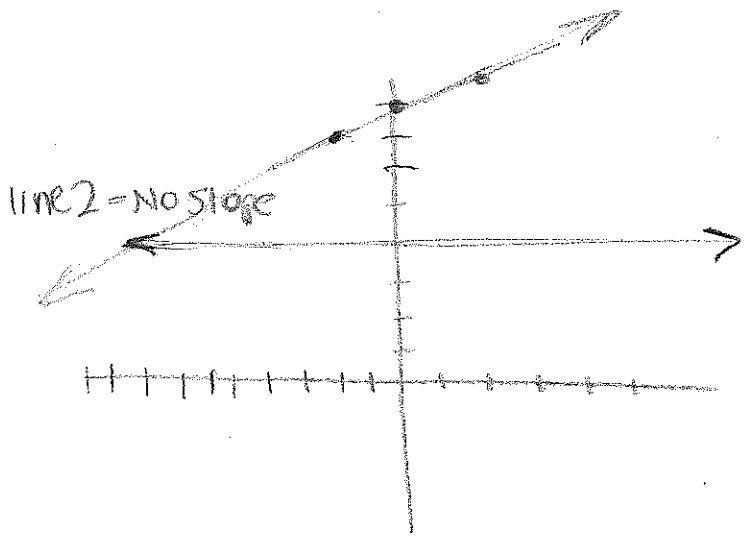
$-8 \quad -8$

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

$\frac{1}{2} \quad \frac{1}{2}$

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

$x = -8$



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 $(4, 4)$.

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

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

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

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

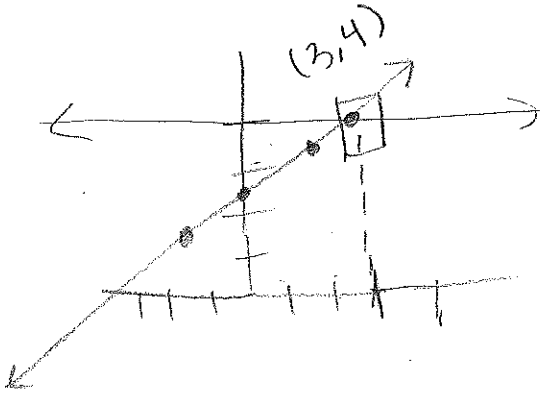
$y = \frac{1}{2}x + \frac{5}{2}$

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

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

$y - 4 = 0$
$+4 \quad +4$

$y = 4$



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

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

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)

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

$1 = -1.5 + b$

$2.5 = b$

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

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

$5 = 2.5 + 2.5$

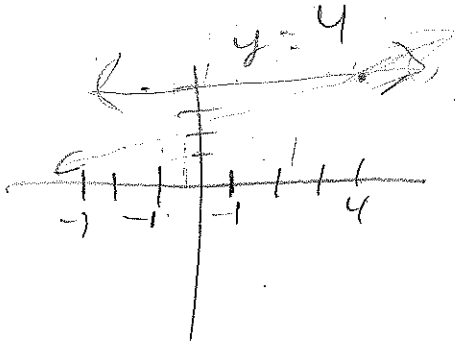
$5 = 5$ ✓

$y = \frac{1}{2}(0) + 2.5$

$1.5 + 2.5$

$y = 4$

$y = 4$



$y = 4$

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

$4 = 0(-1) + b$

$4 = b$

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

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

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

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

$3 = x$

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)

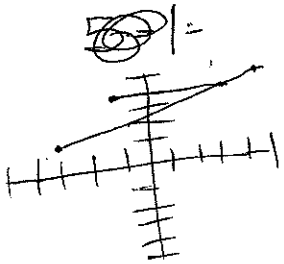
$\frac{5-1}{5--3} \quad \frac{4}{8} = \frac{1}{2}$

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

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

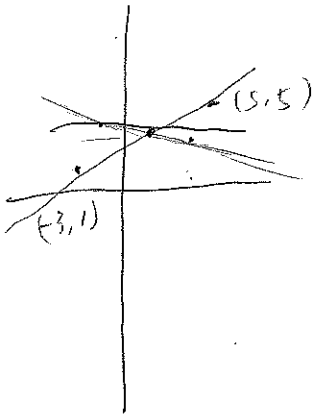
PRINT NAME Ziwei Li

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

---

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

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