Math 34A Winter 2020
Quiz #2c

No calculators

PRINT NAME Jacob Rodier

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 $(x, y) = (-3, 5)$ and $(4, -2)$, and
   - the line connecting the points $(x, y) = (-2, 3)$ and $(5, 3)$.

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

L_1: $(-3, 5)$ $(4, -2)$
x_1 y_1 x_2 y_2

$\frac{-2-5}{4+3} = \frac{-7}{7} = -1$

$y - 5 = -1(x+3)$

$y - 5 = -x - 3$

$y = -x + 2$

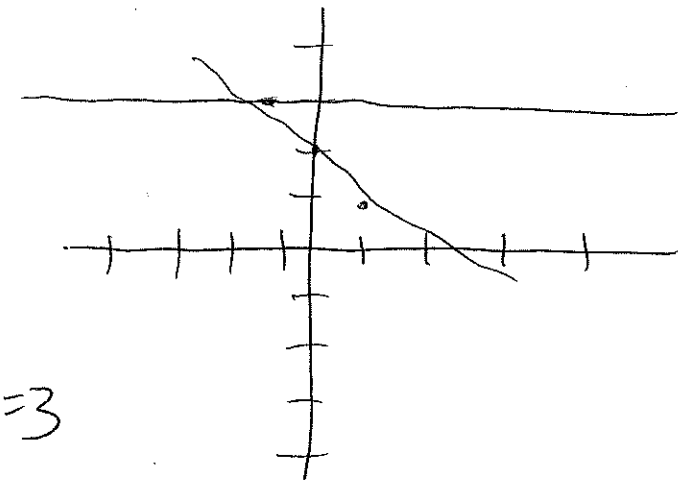
L_2: $(-2, 3)$ $(5, 3)$
x_1 y_1 x_2 y_2

$3 - 3 = 0$ Slope is 0

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

$y - 3 = 0(x -) = 0$ $y = 3$

$(-1, 3)$



$3 = -x + 2$
$-2 \quad -2$
$=$
$1 = -x$
$x = 1$

Math 34A Winter 2020
Quiz #2c

No calculators

PRINT NAME: Jack Taylor

PERM NUMBER: 78578857

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:

   a. • the line connecting the points $(x, y) = (\overset{x_1}{-3}, \overset{y_1}{5})$ and $(\overset{x_2}{4}, \overset{y_2}{-2})$, and

   b. • the line connecting the points $(x, y) = (\overset{x_1}{-2}, \overset{y_1}{3})$ and $(\overset{x_2}{5}, \overset{y_2}{3})$.

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

a. $\frac{4+3}{-3-5} \quad \frac{7}{-1} = -1$

b. $\frac{5+2}{3-3} = \frac{7}{0} = 0$

a. $5 = -1(-3) + b \qquad 3 = 0 \times +3$

$5 = 3 + b$

$b = 2$

$y = 0(x) + 3$

a. $y = -1(x) + 2$

b. $y = 0(x) + 3$

$y = -1(-1) + 2$

$y = 1 + 2$

$x = 3$

$-1(x) + 2 = 0(x) + 3$

$-x + 2 = 3$

$-2 \quad -2$

$x = -1$

Math 34A Winter 2020
Quiz #2c

No calculators

Matthew Goss
PRINT NAME

PERM NUMBER
8286197

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 $(x, y) = (-3, 5)$ and $(4, -2)$, and
   - the line connecting the points $(x, y) = (-2, 3)$ and $(5, 3)$.

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

$\frac{-2-5}{4--3} = \frac{-7}{7} = -1$

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

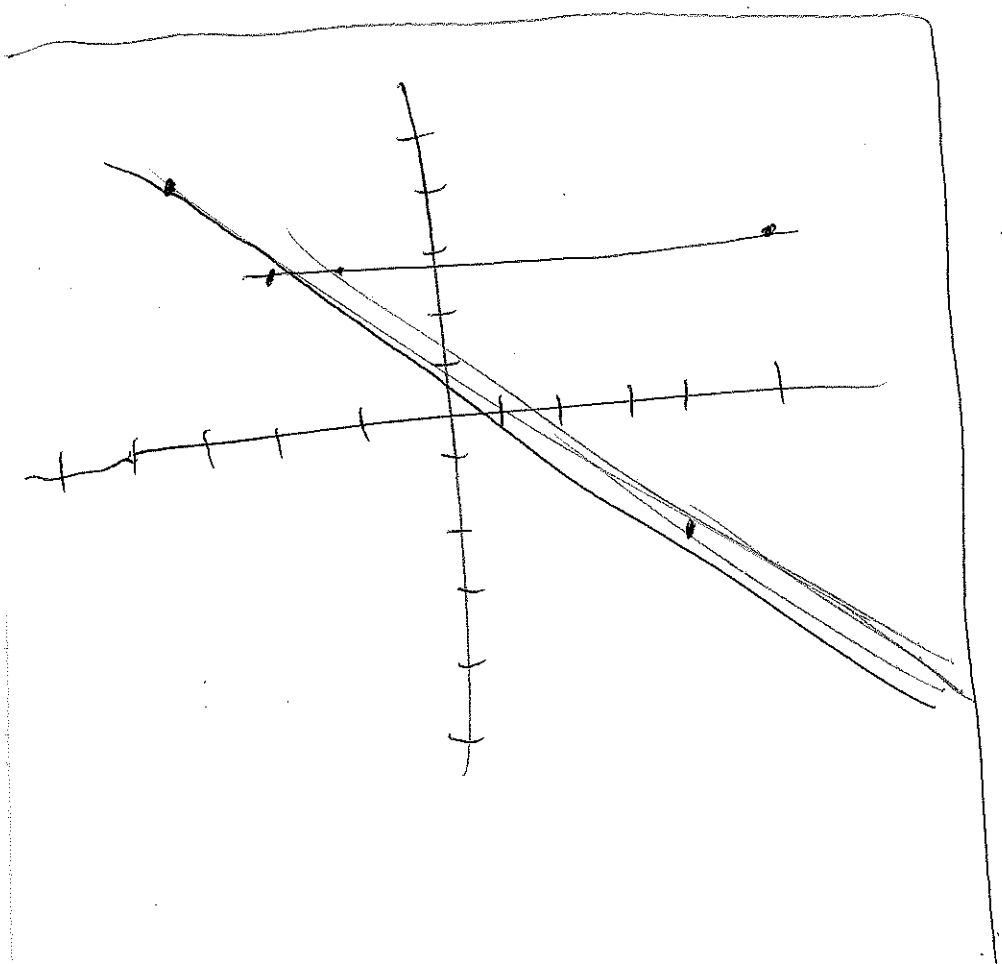
$5 = 3 + b$

$2 = b$

$y = -x + 2$

$\frac{3-3}{5--2} = \frac{0}{7} = 0$

$3 = b$ $y = 3$



$3 = -x + 2$

$1 = -x$

$x = -1$

$y = 3$

Math 34A Winter 2020
Quiz #2c

No calculators

PRINT NAME: Gina Bonaglia

PERM NUMBER: 84097773

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 $(x, y) = (-3, 5)$ and $(4, -2)$, and
   - the line connecting the points $(x, y) = (-2, 3)$ and $(5, 3)$.

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

Line 1: $y - y_1 = m(x - x_1)$

$m = \frac{5-(-2)}{-3-4} = \frac{7}{-7} = -1$

$y - (-2) = -1(x - 4)$

$y + 2 = -1x + 4$

$y = -1x + 2$

Line 2: $y - y_1 = m(x - x_1)$

$y - 3 = m(x - 5)$

$m = \frac{3-3}{5-(-2)} = 0$

$y - 3 = 0x - 0$

$y = 3$

$3 = -1x + 2$

$1 = -1x$

$x = -1$

Math 34A Winter 2020
Quiz #2c

No calculators

Leonardo Avina
PRINT NAME

PERM NUMBER
5525027

Put your answer in the box provided.

TA: ☒ Garo ☐ Trevor ☐ Sam

Time: ☐ 8am ☐ 6pm ☐ 5pm ☒ 7pm

Attending 5pm

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

   L_1 • the line connecting the points $(x, y) = (-3, 5)$ and $(4, -2)$, and

   L_2 • the line connecting the points $(x, y) = (-2, 3)$ and $(5, 3)$.

$(x, y) =$ $(5, 3)$

L_1 $\frac{5+2}{-3-4}$ $m = \frac{7}{-7} = -1$ $y = -x + b$

$y - 5 = -(x - 3)$ $y_1 = -x + 8$

$b_1 = 8$

L_2 $m = \frac{3-3}{-2-5} = 0$ $y = 0x + b$

$y = 3$

$3 = -x + 8$

$x = 5$

$(5, 3)$

Math 34A Winter 2020
Quiz #2c

No calculators

Serafina Cravez
PRINT NAME

PERM NUMBER
4073128

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

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

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

$(-3, 5)$ and $(4, -2)$

$m = \frac{-2-5}{4-(-3)} = \frac{-7}{4+3} = \frac{-7}{7} = -1$

$(-3, 5)$

$y = -x + b$

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

$5 = 3 + b$

$-3 \quad -3$

$2 = b$

$y = -x + 2$

$(-2, 3)$ and $(5, 3)$

$m = \frac{3-3}{5-(-2)} = \frac{0}{5+2} = \frac{0}{7} = 0$

$m = 0$

$y = 0x + b$

$(-2, 3)$

$3 = -2(0) + b$

$3 = b$

$y = 3$

$3 = -x + 2$

$-2 \quad -2$

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

$-1 = x$

$y = -(-1) + 2$

$y = 1 + 2$

$y = 3$

Math 34A Winter 2020
Quiz #2c

No calculators

PRINT NAME Avery-Noëlle Bitter

PERM NUMBER 9800525

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 $(x, y) = (-3, 5)$ and $(4, -2)$, and
   - the line connecting the points $(x, y) = (-2, 3)$ and $(5, 3)$.

I $\frac{y_2 - y_1}{x_2 - x_1} = \frac{-2-5}{4--3} = \frac{-7}{7} = -1$

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

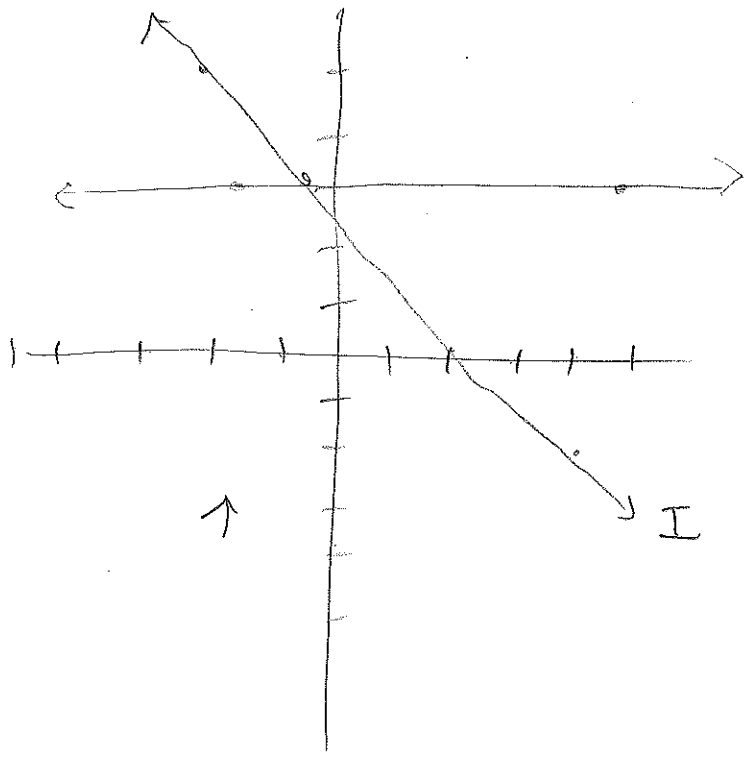
$(-3,5)$ $y - y_1 = m(x - x_1)$
$y - 5 = -1(x - -3)$
$y - 5 = -1(x + 3)$
$y - 5 = -1x - 3$
$+5$
$y = -1x + 2$

II $\frac{y_2 - y_1}{x_2 - x_1} = \frac{3-3}{5--2} = \frac{0}{7} = 0$

$(5,3)$ $y - y_1 = m(x - x_1)$
$y - 3 = 0$
$y = 3$

where does intersect
$y = 3$

checking $\frac{y_2 - y_1}{x_2 - x_1} = \frac{3-3}{-2-5} = \frac{0}{-7} = 0$



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

$y = -1(1) + 2$
$y = -1 + 2 = 1$

$(-1, 1)$?

Math 34A Winter 2020
Quiz #2c

No calculators

PRINT NAME: Emily Machniak

PERM NUMBER: 8267353

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 $(x, y) = (-3, 5)$ and $(4, -2)$, and
   - the line connecting the points $(x, y) = (-2, 3)$ and $(5, 3)$.

L_1: $m_1 = \frac{-2-5}{4-(-3)} = \frac{-7}{7} = -1$

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

L_2: $m_2 = \frac{3-3}{5-(-2)} = \frac{0}{7} = 0$

L_1: $y = -x + b \rightarrow 5 = -(-3) + b$

$y = -x + 2$

$5 = 3 + b$

$-3 \quad -3$

$2 = b$

L_2: $y = 0x + b \rightarrow 3 = 0(5) + b$

$3 = b$

$y = x + 3$

$-x + 2 = x + 3$

$+x - 3 \quad +x \quad -3$

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

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

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

$= -\frac{1}{2} + \frac{6}{2}$

$= \frac{5}{2}$

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

check:

$y = -(-\frac{1}{2}) + 2 \quad 2 = \frac{4}{2}$

$= \frac{1}{2} + \frac{4}{2}$ ✓

$= \frac{5}{2}$

Math 34A Winter 2020
Quiz #2c

No calculators

Mia Barajas
PRINT NAME

PERM NUMBER
8409880

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:

   L_1 • the line connecting the points $(x, y) = (-3, 5)$ and $(4, -2)$, and

   L_2 • the line connecting the points $(x, y) = (-2, 3)$ and $(5, 3)$.

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

L_1:

$\frac{-2+5}{4+3} = -\frac{7}{7} = m$

$y = -1x + b$

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

$b = 2$

$y = -x + 2$

L_2:

$\frac{3-3}{5+2} = \frac{0}{7}$

$y = 0x + b$

$3 = 0(5) + b$

$y = 3$

$-x + 2 = 3$

$2 = x + 3$

$-1 = x$

$y = -(-1) + 2$

$y = 3$

$-\frac{10}{7}x + \frac{5}{7}$

$7(-3) = \left(-\frac{10}{7}x + \frac{5}{7}\right)7$

$21 = -10x + 35$

-35

$-14 = -10x$

$\frac{-14}{-10} = \frac{-10x}{-10}$

$x = \frac{7}{5}$

$35 - 21 = 14$

YIKES

$y = -\frac{10}{7}\left(\frac{7}{5}\right) + \frac{5}{7}$

$= -2 + \frac{5}{7}$

$= -\frac{14}{7} + \frac{5}{7}$

$y = -\frac{9}{7}$

Math 34A Winter 2020
Quiz #2c

No calculators

Jazmin Gomez
PRINT NAME

PERM NUMBER
946504 - 8

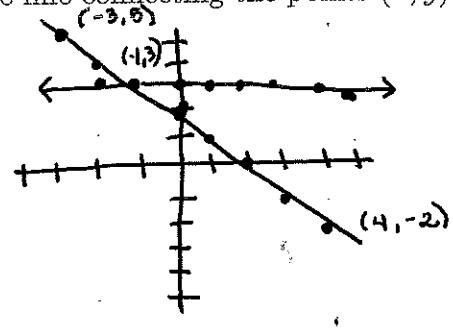
Put your answer in the box provided.

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 $(x, y) = (-3, 5)$ and $(4, -2)$, and
   - the line connecting the points $(x, y) = (-2, 3)$ and $(5, 3)$.



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

$\frac{y_2 - y_1}{x_2 - x_1} = \frac{-2 - 5}{4 + 3} = \frac{-7}{7} = 1$ Y=X+C

$= \frac{3 - 3}{5 + 2} = \frac{0}{7}$ * $y = 7$

Math 34A Winter 2020
Quiz #2c

No calculators

Ragan Fowzer
PRINT NAME

PERM NUMBER
3483393

Put your answer in the box provided.

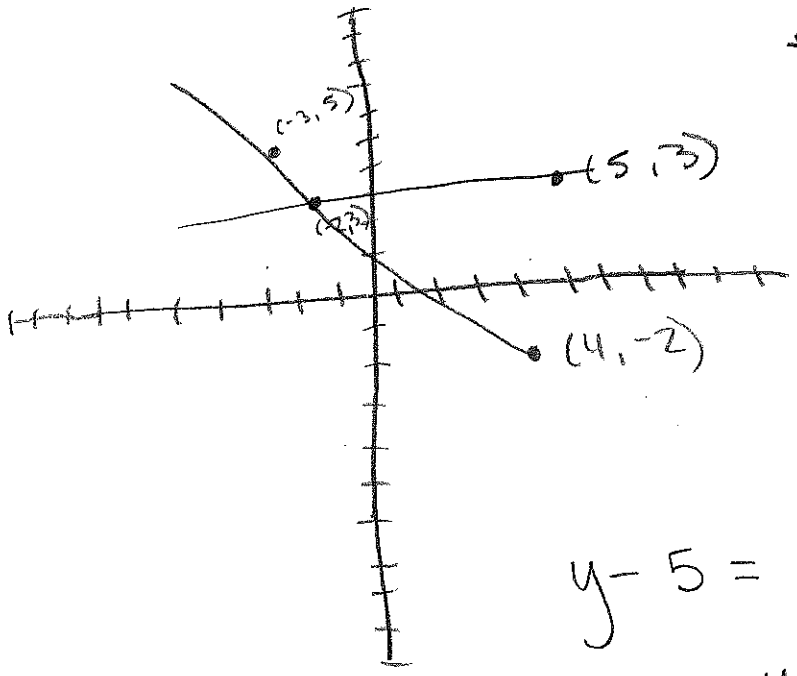
TA: ☒ Garo ☐ Sam ☐ Trevor **Time:** ☐ 8am ☒ 5pm ☐ 6pm ☐ 7pm

---

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

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

$(-3, 5)$ $(4, -2)$



$2x + 3 = -1x + 2$
$+1x \quad -3 \qquad +1x \quad -3$
$3x = -1$
$3 \qquad 3$
$x = -1/3$

$-2 + 5$
$4 + (+3)$

$\frac{-7}{7} \quad -1$

$y - 5 = -1(x + (+3))$

$y - 5 = -1x - 3$
$+5 \qquad +5$
$0 \qquad +2$

$L_1 \quad y = -1x + 2$

$(-2, 3)$ $(5, 3)$

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

$y - 3 = 0(x + (+2)) \quad \frac{0}{7} \quad 0$

$y - 3 = 2x + 3 \quad L_2 \; y = 2x + 3$
$+3$
0

$2x + 3 = -1x + 2$
$+1x \quad -3 \qquad +1x \quad -3$
$0 \qquad 0$
$3x = -1$
$3 \qquad 3$
$x = -1/3$

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

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

$4/3$

Math 34A Winter 2020
Quiz #2c

No calculators

PRINT NAME Emma Altschuld

PERM NUMBER 752165-1

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 $(x, y) = (-3, 5)$ and $(4, -2)$, and

   (2) • the line connecting the points $(x, y) = (-2, 3)$ and $(5, 3)$.

$(x, y) =$ $(1/3, -2\,1/3)$

$m_1 = \frac{-2-5}{4+3} = \frac{-7}{7} = +1 \leftarrow y = -1x + 2$

$m_2 = \frac{3-3}{5+2} = \frac{0}{3} \leftarrow$ undefined $y = 0/3x + 4/3$

$5 = -1(-3) + b$
$5 = 3 + b$
$2 = 2$

$3 = 0/3(5) + b$
$3 = \frac{5}{3} + b$
$\frac{4}{3} = b$

$0/3x + 4/3 = -1x + 2$
$0/3x + 1\frac{1}{3} = -1x + 2$
$0/3x + 1x = 1/3$
$1x = 1/3$
$x = 1/3$

Math 34A Winter 2020
Quiz #2c

No calculators

PRINT NAME Josh Lee

PERM NUMBER
3373982

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 $(x, y) = (-3, 5)$ and $(4, -2)$, and
   - the line connecting the points $(x, y) = (-2, 3)$ and $(5, 3)$.

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

S_1 $\frac{5 - -2}{-3 - 4} = \frac{7}{-7} = -1$

S_2 $\frac{3 - 3}{-2 - 5} = \frac{0}{-7} = 0$

$y - 5 = -1(x - (-3))$

$y - 5 = -x - 3$

L_1 $y = -x + 2$

$y - 3 = 0(x - (-2))$

$y - 3 = 0$

L_2 $y = 3$

$-x + 2 = 3$

$-x = 1$

$x = -1$

$\frac{-2 - 5}{4 + 3} = \frac{-7}{7}$

$\frac{3 - 3}{5 + 2} = 0$

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

$y + 2 = -x + 4$

L_1 $y = -x + 2$

$y - 3 = 0(x - 5)$

$y - 3 = 0 - 0$

$y = 3$

$-x + 2 = 3$

$-x = 1$

Math 34A Winter 2020
Quiz #2c

No calculators

Olivia Macior
PRINT NAME

PERM NUMBER
7942246

Put your answer in the box provided.

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

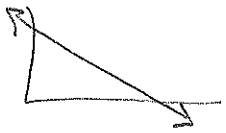
---

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

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

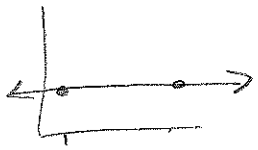
L_1:

$\frac{(-2-5)}{4+3} = \frac{-7}{7} \to -1$



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

L_2: $\frac{(3-3)}{5+2} \to \frac{0}{7}$



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

$(4) + 2)$
4
$1 + 2$
3

Math 34A Winter 2020
Quiz #2c

No calculators

Baris Delikaasi
PRINT NAME

PERM NUMBER
9505967

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 $(x, y) = (-3, 5)$ and $(4, -2)$, and
   - the line connecting the points $(x, y) = (-2, 3)$ and $(5, 3)$.

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

L_1: $(-3,5)$ $(4,-2)$

$\frac{-2-5}{4-(-3)} = \frac{-7}{7} = -1$

$-2 = -1 \cdot 4 + b$

$-2 = -4 + b$

$b = 2$

L_1: $y = -x + 2$

L_2: $(-2,3)$ $(5,3)$

$\frac{3-3}{5-(-2)} = 0$

$y = 0x + 3$

$3 = -x + 2$

$1 = -x$

$x = -1$

$-x + 2 = 0x + 3$

$-x = 1$

$x = -1$

$-1, 3$

Math 34A Winter 2020
Quiz #2c

No calculators

Elizabeth Bartlett
PRINT NAME

PERM NUMBER
840013 - 7

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 $(x, y) = (-3, 5)$ and $(4, -2)$, and
   2. the line connecting the points $(x, y) = (-2, 3)$ and $(5, 3)$.

$y - y_0 = m(x - x_0)$

L1) $\frac{-2-5}{4+3} = \frac{-7}{7} = -1$

$(x, y) =$ $\boxed{(-1, 3)}$

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

$y + 2 = -x + 4$

$\boxed{y = -x + 2}$ line 1

L2) $\frac{3-3}{5+2} = \frac{0}{7} = 0$

$y - 3 = 0(x - 5)$

$y - 3 = 0$

$\boxed{y = 3}$ line 2

Intersection:

$3 = -x + 2$

$3 + x = 2$

$x = -1$

Check:

$y = -(-1) + 2$

$y = 1 + 2$

$y = 3 \quad = y = 3$ ✓

Math 34A Winter 2020
Quiz #2c

No calculators

annamorgan
PRINT NAME

PERM NUMBER
7775179

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 $(x, y) = (-3, 5)$ and $(4, -2)$, and
   - the line connecting the points $(x, y) = (-2, 3)$ and $(5, 3)$.

L_1 slope $= \frac{-2-5}{4+3} = \frac{-7}{7} = -1$

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

L_2 slope $= \frac{3-3}{5+2} = \frac{0}{7} = 0$

L_1 equation $= y+2 = -1x+4$

$= y = -1x+2$

L_2 equation $= y-3 = 0(x-5)$

$y = 3$

$3 = -1x+2$

$1 = -1x$

$x = -1$

$y = -1(-1)+2$

$y = 3$

Math 34A Winter 2020
Quiz #2c

No calculators

Maggie Shurman
PRINT NAME

PERM NUMBER
7925563

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 $(x, y) = (-3, 5)$ and $(4, -2)$, and
   - the line connecting the points $(x, y) = (-2, 3)$ and $(5, 3)$.

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

$\frac{5+2}{-3-4} = \frac{7}{-7} = -1 = m$

$-2 = (-1)4 + b$

$-2 = -4 + b$

$+4 \quad +4$

$2 = b$

$L_1 = y = -1x + 2$

$\frac{3-3}{5+2} = \frac{0}{7}$ no slope

vert. line

$3 = -1(x) + 2$

$1 = -1(x)$

$-1 = x$

$y = -1(-1) + 2$

$1 + 2$

$y = 3$

Math 34A Winter 2020
Quiz #2c

No calculators

Sydney Arrillaga
PRINT NAME

PERM NUMBER
9560293

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 $(x, y) = (-3, 5)$ and $(4, -2)$, and
   - the line connecting the points $(x, y) = (-2, 3)$ and $(5, 3)$.

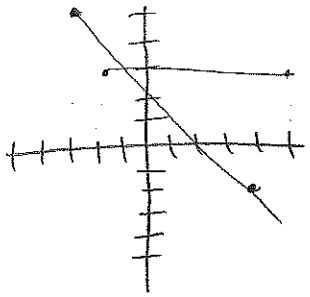
$L_1 \rightarrow \frac{-2-5}{4+3} = \frac{-7}{7} = -1 = m$

$y - 5 = -1(x+3)$
$y = -x - 3 + 5$
$y = -x + 2$

$(x, y) =$ **(−1, 3)**

$L_2 \rightarrow \frac{3-3}{5+2} = 0$

$y - 3 = 0$
$y = 3$



$int \rightarrow 3 = -x + 2$
$x = -1$

$y = -(-1) + 2$
$y = 1 + 2$
$y = 3$

Math 34A Winter 2020
Quiz #2c

No calculators

Karly Cleveland
PRINT NAME

PERM NUMBER
9551693

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 $(x, y) = (-3, 5)$ and $(4, -2)$, and
- the line connecting the points $(x, y) = (-2, 3)$ and $(5, 3)$.

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

L_1: $m = \frac{-2-5}{4-(-3)} = \frac{-7}{7} = -1$

$y - 5 = -1(x + 3)$

$y - 5 = -x - 3$

$y = -x + 2$

L_2: $m = \frac{3-3}{5-(-2)} = \frac{0}{7} = 0$

$y - 3 = 0(x - 5)$

$y - 3 = 0 - 0 = 0$

$y = 3$

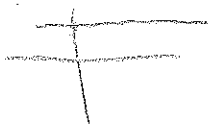
$3 = -x + 2$

$1 = -x$

$x = -1$

$y = -(-1) + 2$

$y = 3$



Math 34A Winter 2020
Quiz #2c

No calculators

PRINT NAME Matthew Loi

PERM NUMBER 686910-1

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 $(x, y) = (-3, 5)$ and $(4, -2)$, and
   - the line connecting the points $(x, y) = (-2, 3)$ and $(5, 3)$.

$(x, y) =$ $x = -1 \quad y = 3$ $(-1, 3)$

$\frac{y_2 - y_1}{x_2 - x_1}$ = slope $\quad \frac{-2-5}{4+3} = \frac{-7}{7} = -1$

$L_1 \quad y = -x + b \quad y = -x + b$

$-2 = -4 + b$

$2 = b \quad y = -x + 2$

$L_2 \quad \frac{3-3}{5+2} = \frac{0}{7}$

$y = 0x + b \quad 3 = -x + 2 \quad y = 1 + 2$

$y = 3$

$3 = b \quad y = 3 \quad x + 3 = 2$

$x = -1$

Math 34A Winter 2020
Quiz #2c

No calculators

PRINT NAME Samantha Morris

PERM NUMBER
3384310

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:

L_1 = • the line connecting the points $(x, y) = (-3, 5)$ and $(4, -2)$, and

L_2 = • the line connecting the points $(x, y) = (-2, 3)$ and $(5, 3)$.

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

L_1 $\frac{5-(-2)}{4-(-3)} = \frac{7}{7} = 1$

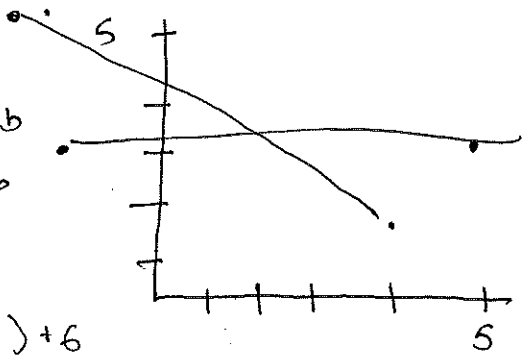
$L_1(y = 1x + 6)$

$y = 1x + b$
$4 = 1(-2) + b$
$4 = -2 + b$
$+2 \quad +2$
$6 = b$

$L_2 = \frac{3-3}{5-(-2)} = \frac{0}{7} = 0$

$L_2(y = 0x + 3)$

$y = 0(x) + b$
$3 = 0(5) + b$
$3 = b$



$1x + 6 = 0x + 3$
$1x + 6 = 3$
$-6 \quad -6$
$x = -3$

$y = 1(-3) + 6$
$y = -3 + 6$
$y = 3$

$1x + 6 = 3$

Math 34A Winter 2020
Quiz #2c

No calculators

Jeanet Ochoa
PRINT NAME

PERM NUMBER
9641101

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 $(x, y) = (-3, 5)$ and $(4, -2)$, and
   - the line connecting the points $(x, y) = (-2, 3)$ and $(5, 3)$.

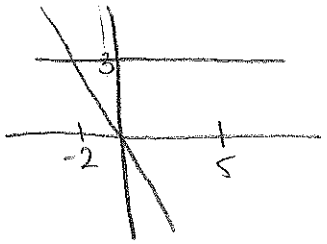
L_1: $\frac{-2-5}{4-(-3)} = \frac{-7}{7} = -1$

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

$y - 5 = -1(x + 3)$

$y = -1x - 3 + 5$

$y = -1x + 2$



L_2: $\frac{(3-3)}{5-(-2)} = \frac{0}{7}$

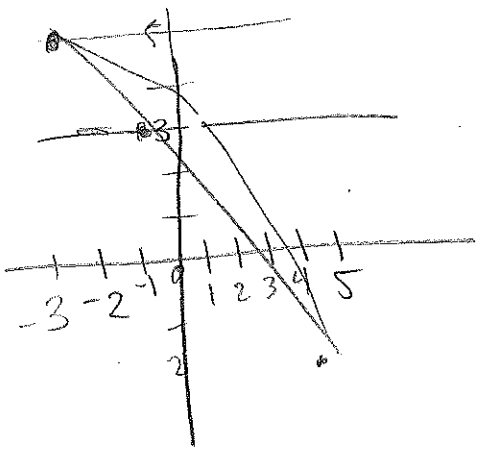
$y - 3 = 0(x + 5)$

$y = 3$

$3 = -1x + 2$
$-2 \quad -2$

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

$x = 1$



Math 34A Winter 2020
Quiz #2c

No calculators

Yu Lung Chang
PRINT NAME

PERM NUMBER
9808753

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 $(x, y) = (-3, 5)$ and $(4, -2)$, and
   - the line connecting the points $(x, y) = (-2, 3)$ and $(5, 3)$.

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

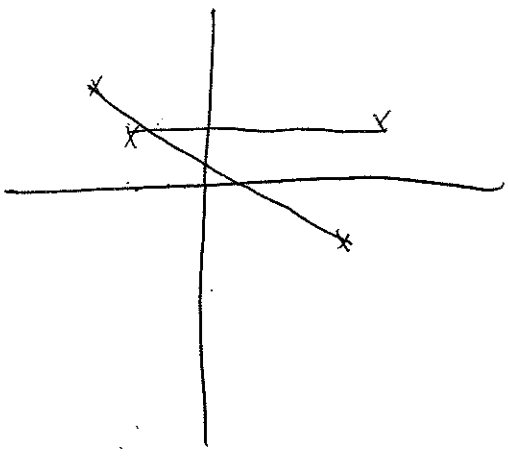
$\frac{7}{-7}$ $\frac{-7}{-7}$ $(2, 3)$

$y = mx + b$
$y = -x + b$
$5 = -(-3) + b$
$5 = 3 + b$
$b = 2$

$y = mx + b$
$3 = -2m + b$
$3 = 0 + b$

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

$y = -(-1) + 2$
$y = 3$



Math 34A Winter 2020
Quiz #2c

No calculators

Jennifer Oropeza
PRINT NAME

PERM NUMBER
8215139

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:

$y - y_0 = m(x - x_0)$

- the line connecting the points $(x, y) = (\underset{x_1}{-3}, \underset{y_1}{5})$ and $(\underset{x_2}{4}, \underset{y_2}{-2})$, and
- the line connecting the points $(x, y) = (\underset{x_1}{-2}, \underset{y_1}{3})$ and $(\underset{x_2}{5}, \underset{y_2}{3})$.

$\frac{y_2 - y_1}{x_2 - x_1}$ ← slope

$(x, y) =$ **(−1, 3)**

line 1: $\frac{-2-5}{4+3} = \frac{-7}{7} = -1$ ← slope

$y - 5 = -1(x + 3)$
$y - 5 = -1x - 3$
$+5 \quad +5$
$y = -1x + 2$

line 2: $\frac{3-3}{5+2} = \frac{0}{7} = 0$ ← slope

$y = -1x + 2$
$y - 3 = 0(x + 2)$
$y - 3 = 0x + 0$
$y = 0x + 3$

$0x + 3 = -1x + 2$
$+1x \quad +1x$
$1x + 3 = 2$
$-3 \quad -3$
$\frac{1x}{1x} = \frac{-1}{1}$
$x = -1$

$y = -1(-1) + 2$
$y = 1 + 2$
$= 3$

Math 34A Winter 2020
Quiz #2b

No calculators

PRINT NAME Celeste

PERM NUMBER
8369654

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 $(4, 4)$.

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

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

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

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

$+5 \qquad +5$

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

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

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

$y - 4 = 0$

$y = 4$

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

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

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

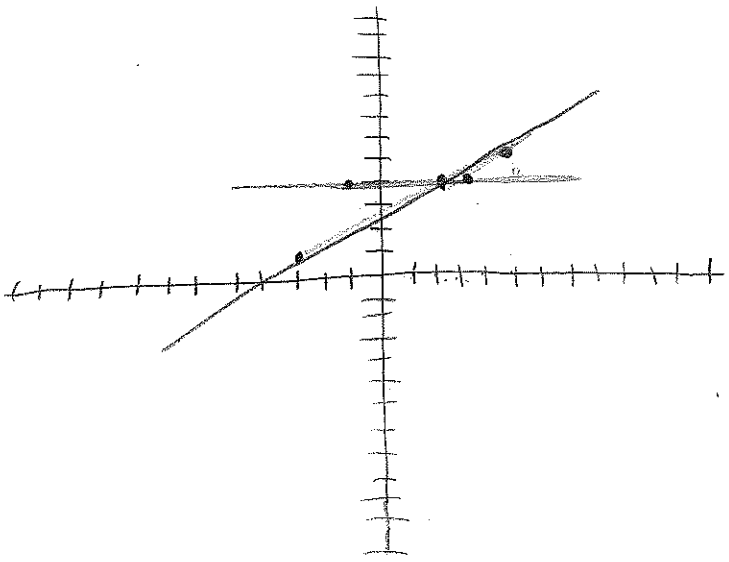
$\frac{2}{1} \cdot \frac{3}{2} = x$

$6/2 = x$

$= 3$

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

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



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

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

Math 34A Winter 2020
Quiz #2c

No calculators

PRINT NAME Evan Harris

PERM NUMBER 7309073

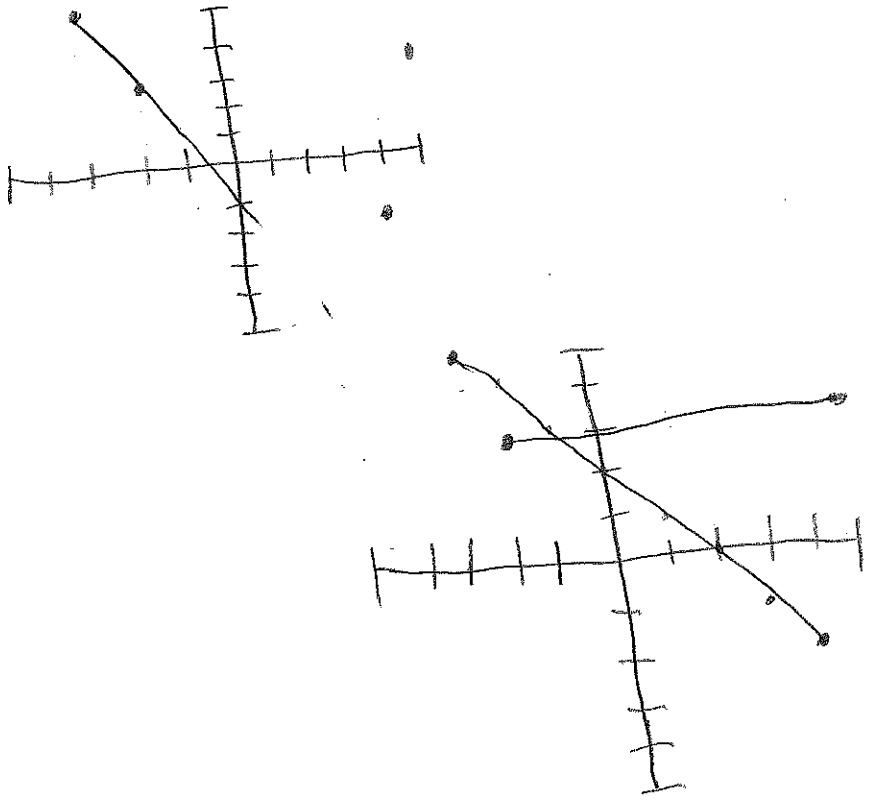
Put your answer in the box provided.

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 $(x, y) = (-3, 5)$ and $(4, -2)$, and
   - the line connecting the points $(x, y) = (-2, 3)$ and $(5, 3)$.

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



Math 34A Winter 2020
Quiz #2c

No calculators

Yufang Ding
PRINT NAME

PERM NUMBER
3093259

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 $(x, y) = (-3, 5)$ and $(4, -2)$, and
   - the line connecting the points $(x, y) = (-2, 3)$ and $(5, 3)$.

$y = kx + b$

$\begin{cases} 5 = -3k + b \\ -2 = 4k + b \end{cases}$

$7k = -7$

$k = -1$

$3 + b = 5$

$b = 2$

$y = -x + 2$

$y = kx + b$

$\begin{cases} 3 = -2k + b \\ 3 = 5k + b \end{cases}$

$0 = 7k$

$k = 0$

$0 + b = 3$

$b = 3$

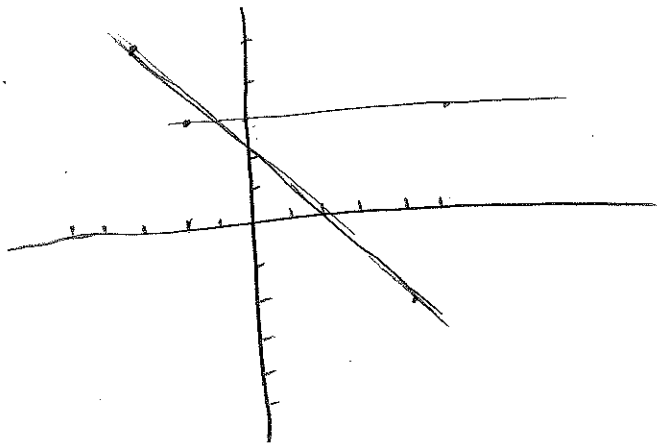
$y = 3$

$-x + 2 = 3$

$-x = 1$

$x = -1$

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



Math 34A Winter 2020
Quiz #2c

No calculators

PRINT NAME Jiani Zhang

PERM NUMBER 8350449

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 $(x, y) = (-3, 5)$ and $(4, -2)$, and
   - the line connecting the points $(x, y) = (-2, 3)$ and $(5, 3)$.

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

① $\frac{-2-5}{4+3} = \frac{-7}{7} = -1$

$y = mx + b$

$-(4) + b = -2$

$-4 + b = -2$

$b = -2 + 4$

$b = 2$

$y = -x + 2$

② $\frac{3-3}{5+2} = 0$

$0 + b = 3$

$b = 3$

$y = 3$

③ $-x + 2 = 3$

$-x = 1$

$x = -1$

Math 34A Winter 2020
Quiz #2c

No calculators

PRINT NAME Matt Fulton

PERM NUMBER
7835047

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 $(x, y) = (\overset{x_1}{-3}, \overset{y_1}{5})$ and $(\overset{x_2}{4}, \overset{y_2}{-2})$, and
   - the line connecting the points $(x, y) = (\overset{x_1}{-2}, \overset{y_1}{3})$ and $(\overset{x_2}{5}, \overset{y_2}{3})$.

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

$(x, y) =$ $y = x+9$, $y = x+1$

$Y = y_1 + m(X - x_1)$

$Y = 5 + -1(X - 4)$

$X + 4$

$Y = X + 9$

0

$Y = X + 9$

$Y = X + 1$

$X + 1 = X + 9$

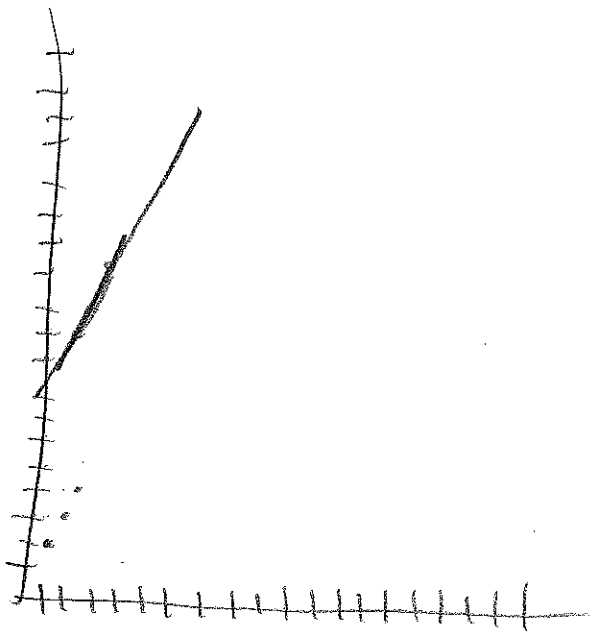
$X = X + 8$

$m = 1$

$Y = 5 + 1(X - 4)$

$X - 4 + 5 = Y$

$Y = X + 1$



Math 34A Winter 2020
Quiz #2c

No calculators

Angie Garcia
PRINT NAME

PERM NUMBER
3282332

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 $(x, y) = (-3, 5)$ and $(4, -2)$, and
   - the line connecting the points $(x, y) = (-2, 3)$ and $(5, 3)$.

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

x_2

$\frac{y_2 - y_1}{x_2 - x_1} = \frac{-2-5}{4-(-3)} = \frac{-7}{7} = -1$

$y = 1x + b$
$-2 = -1(4) + b$
$-2 = -4 + b$
$+4 \quad +4$
$b = 2$

#1 $y = -1x + 2$

$y = -1x + b$
$5 = -1(-3) + b$
$5 = 3 + b$
$-3 \quad -3$
$b = 2$

$y = -1x + 2$

3,

$\frac{3-3}{5-(-2)} = \frac{0}{}$

$\frac{3-3}{5-(-2)} = \frac{0}{7} = 0$

$y = 0x + b$

#2 $y = 3$

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

$x = -1$

$3 = -1x + 2$

Math 34A Winter 2020
Quiz #2c

No calculators

PRINT NAME Ben Arnold

PERM NUMBER 7022973

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 $(x, y) = (-3, 5)$ and $(4, -2)$, and
   - the line connecting the points $(x, y) = (-2, 3)$ and $(5, 3)$.

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

$\frac{-2-5}{4-(-3)} \quad \frac{-7}{7} = -1$

$-2 = -1(4) + b$

$2 = b$

$y = -1x + 2$

$y = -1(-1) + 2$

$y = 3$

$\frac{3-3}{5-(-2)} \quad \frac{0 \text{ Rise}}{7 \text{ Run}}$

$3 = -1(0) + b$

$b = 3$

$y = 3$

$3 = -1x + 2$

$-2 \qquad -2$

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

$-1 = x$

Math 34A Winter 2020
Quiz #2c

No calculators

LAURYN BRADLEY
PRINT NAME

PERM NUMBER
8289480

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 $(x, y) = (-3, 5)$ and $(4, -2)$, and
   - the line connecting the points $(x, y) = (-2, 3)$ and $(5, 3)$.

$(x, y) =$ $\left(\frac{5}{2}, \frac{11}{2}\right)$

$y_1 - y_2 = m(x_1 - x_2)$

$\frac{y_2 - y_1}{x_2 - x_1}$ $\frac{-2-5}{4+3} = \frac{-7}{7} = -1$

$\frac{3-3}{5+2} = \frac{0}{7}$

$y = mx + b$

$5 - y_2 = 1(-3 - x_2)$

$5 - = -3 - 1x$
$+5 \quad -5$

$\frac{-y_2}{-1} = \frac{-8 + 1x}{-1}$

$y = 1x + 8$

$3 - y_2 = 0(-2 - x_2)$
-3

$= 0 - x$
3

$y_2 = -3 - x$

$y = 1x + 3$

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

$\frac{11}{2}$

$1x + 3 = 1x + 8$
$+1 \quad -3 \quad +1 \quad -3$

$2x = 5$

$x = 5/2$

Math 34A Winter 2020
Quiz #2c

No calculators

Carlos Orendain
PRINT NAME

PERM NUMBER
8865669

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:

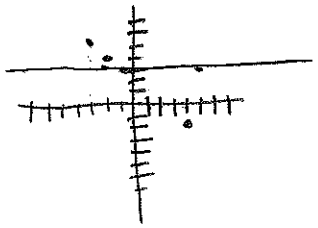
   - the line connecting the points $(x, y) = (-3, 5)$ and $(4, -2)$, and
   - the line connecting the points $(x, y) = (-2, 3)$ and $(5, 3)$.

$\frac{-2-5}{4--3} = \frac{-7}{7}$ $m = -1$

$\frac{3-3}{5+2} = \frac{0}{7} = 0$

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

at what point does line 1 cross $y=3$



$3 = -1x + b$

next point on line 1 $= -2, 4$

next point $= -1, 3$
next point $= 0, 2$
next $= 1, 1$
next $= 2, 0$ next $= 3, -1$ then $4, -2$

line 1 must cross @ $y = 3$

you use slope from line 1 to fix 'x' when $y=3$ by counting the next poin

$y = -1x + b$
to find b of line 1 → plug in the point of $4, -2$

$y = -1x + b$ → $-2 = -1(4) + b$ → $-2 = -4 + b$ → $b = +2$

line of #1 $= y = -1x + 2$ so we have this and know that $y=3$ because of line 2 $3 = -1x + 2$ $1 = -1x$

Math 34A Winter 2020
Quiz #2c

No calculators

PRINT NAME: Will Thornton

PERM NUMBER: 9492794

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 $(x, y) = (-3, 5)$ and $(4, -2)$, and
   - the line connecting the points $(x, y) = (-2, 3)$ and $(5, 3)$.

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

$\frac{5+2}{-3-4} \quad \frac{7}{-7}$

$\frac{3-3}{5+2} = \frac{0}{7} = 0$

$Y - 3 = -1(X - 5)$

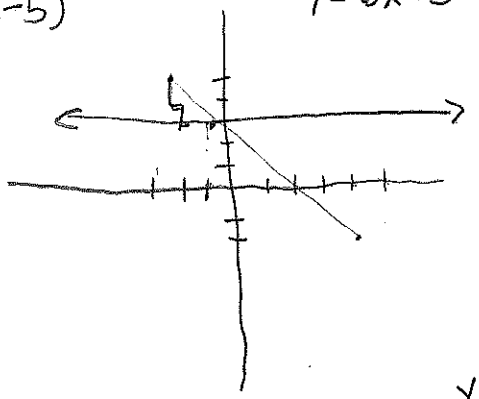
$Y = 0X + 3$

$Y - 5 = 0(X + 3)$

$Y - 5 = 0$

$Y = 5$

$Y = -X + 5 + 3$



$3 = -X + 8$

$X = 5$

$Y = 3$

$-1, 3$

$3 = -X + 2$

$1 = -X$

$-1 = X$

$Y = 0X + 3$

$Y + 2 = -1(X - 4)$

$Y + 2 = -X + 4$

$Y = -X + 2$

$Y + 2 = -1(X - 4)$ (−1−4)

$Y + 2 = -X - 4$

$Y + 2 = 1 - 4$

Math 34A Winter 2020
Quiz #2c

No calculators

Melissa Rubino
PRINT NAME

PERM NUMBER
8183774

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 $(x, y) = (-3, 5)$ and $(4, -2)$, and
   - the line connecting the points $(x, y) = (-2, 3)$ and $(5, 3)$.

$(x, y) =$ **(−1, 3)**

$\frac{-2-5}{4+3} = \frac{-7}{7} = -1$

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

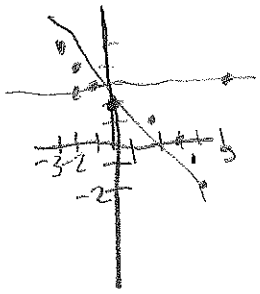
$y = -x + 4 - 2$

$y = -x + 2$

$\frac{3-3}{5+2} = \frac{0}{7} = 0$

$y - 3 = 0(x - 5)$

$y = 3$



$3 = -x + 2$

$1 = -x$

$x = -1$

Math 34A Winter 2020
Quiz #2c

No calculators

Fabiola Pascual
PRINT NAME

PERM NUMBER
7867260

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 $(x, y) = (-3, 5)$ and $(4, -2)$, and
- the line connecting the points $(x, y) = (-2, 3)$ and $(5, 3)$.

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

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

$\frac{-2-5}{4-(-3)} = \frac{-7}{7} = -1$

$y - 5 = -1(x - (-3))$

$y = -x + 2$

$\frac{3-3}{5-(-2)} = \frac{0}{7} = 0$

$y - 3 = 0(x - (-2))$

$y - 3 = 0$

$y = 3$

$3 = -x + 2$
$-2 \quad -2$

$1 = -x$
$-1 \quad -1$

$-1 = x$

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

Math 34A Winter 2020
Quiz #2c

No calculators

Bradley Petersen
PRINT NAME

PERM NUMBER
7947427

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:

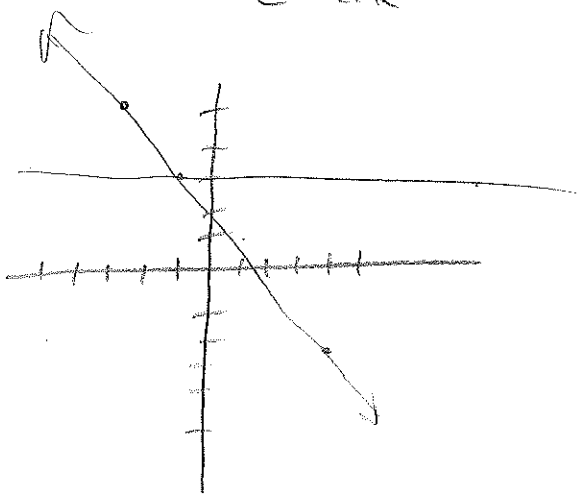
   - the line connecting the points $(x, y) = (-3, 5)$ and $(4, -2)$, and
   - the line connecting the points $(x, y) = (-2, 3)$ and $(5, 3)$.

Slope $\frac{-2-5}{4+3} \quad \frac{-7}{7} = -1$

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

$\frac{3-3}{5+2} = 0$ slope

Check



Eq of line 1: $y = -x + 2$

$3 = -x + 2$

$1 = -x$

$x = -1$

$y = 3$

Math 34A Winter 2020
Quiz #2c

No calculators

PRINT NAME Nicholas Cuevas

PERM NUMBER 9427170

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 $(x, y) = (-3, 5)$ and $(4, -2)$, and
   - the line connecting the points $(x, y) = (-2, 3)$ and $(5, 3)$.

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

$\frac{-2-5}{4+3} = \frac{-7}{7} = -1$

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

$5 = 3 + b$

$b = 2$

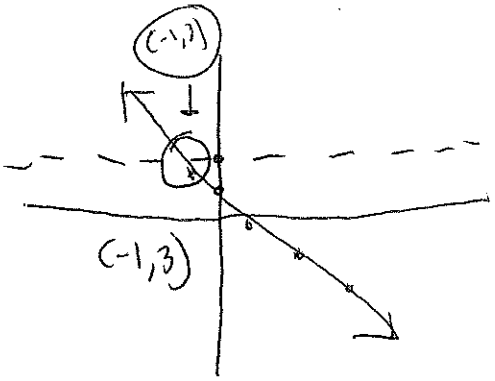
$\frac{3-3}{5+2} = \frac{0}{7} = 0$

$3 = 0(-2) + b$

$3 = b$

$y = -x + 2$

$y = 3$



$3 = -x + 2$

$-2 \quad -2$

$1 = -x$

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

$x = -1$

$(-1, 3)$

Check:

$\frac{-2-5}{4+3} = \frac{-7}{7} = -1$ $\quad y = -x + 2$ ✓

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

$5 = 3 + b$

$b = 2$

$\frac{3-3}{5+2} = \frac{0}{7} = 0$ $\quad y = 3$ ✓

$3 = 0(-2) + b$

$3 = b$

Math 34A Winter 2020
Quiz #2c

No calculators

April Lemus
PRINT NAME

PERM NUMBER
8413528

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 $(x, y) = (-3, 5)$ and $(4, -2)$, and
- the line connecting the points $(x, y) = (-2, 3)$ and $(5, 3)$.

$\frac{-2-5}{4-(-3)} = \frac{-7}{7} = -1$

$(x, y) =$ 2, 5

$\frac{3-3}{5-(-2)} = \frac{0}{7} = 0$

$y - 3 = 0(x - 5)$

$y = x + 3$

$y - 5 = -1(x - (-3))$

$y - 5 = -x - 3$

$+5 \quad +5$

$y = -x + 2$

$y = x + 3$

$y = 5$

$5 = x + 3$

$-3 \quad -3$

$2 = x$

Math 34A Winter 2020
Quiz #2c

No calculators

PRINT NAME Angelina Sang

PERM NUMBER
9350166

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 $(x, y) = (-3, 5)$ and $(4, -2)$, and
   - the line connecting the points $(x, y) = (-2, 3)$ and $(5, 3)$.

$y=3$

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

L_1: $y = mx + b \longrightarrow y = -1x + 2$

$m = \frac{5+2}{-3-4} = \frac{7}{7} = -1$

$-2 = (-1)(4) + b$

$-2 = -4 + b$
$+4 \quad +4$

$b = 2$

L_2: $y = mx + b \rightarrow y = 3$ ✓

$m = \frac{3-3}{5-2} = \frac{0}{8} = 0$

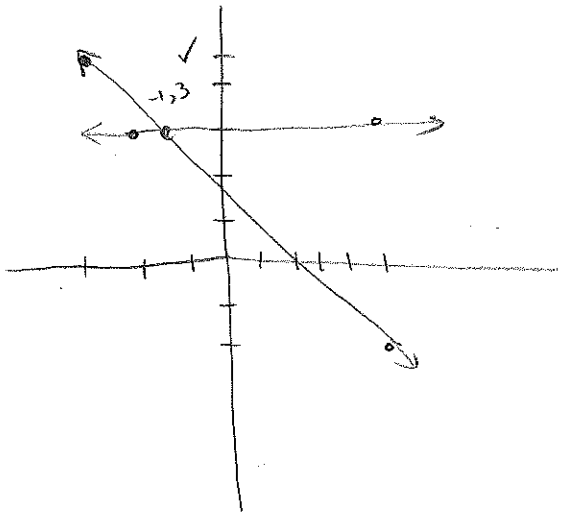
$3 = 5(0) + b$

$b = 3$

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

$x = -1$

$y = 3$



Math 34A Winter 2020
Quiz #2c

No calculators

PRINT NAME Jack Greene

PERM NUMBER 797-4397

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 $(x, y) = (-3, 5)$ and $(4, -2)$, and
   - the line connecting the points $(x, y) = (-2, 3)$ and $(5, 3)$.

$\frac{7}{7}$

$-1(x+3)+5$

$y_1 = -x+2$

$y_2 = 3$

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

Math 34A Winter 2020
Quiz #2c

No calculators

PRINT NAME Lotus Vu

PERM NUMBER
9464280

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 $(x, y) = (-3, 5)$ and $(4, -2)$, and
   - the line connecting the points $(x, y) = (-2, 3)$ and $(5, 3)$.

$(x, y) =$ (3, 0) $(-\frac{1}{2}, 3)$

$\frac{-2-5}{4+3} = \frac{-7}{7} = -1$ $\quad$ $\frac{3-3}{5+2} = \frac{0}{7}$

$y + 2 = -1(x - 4)$ $\quad$ $y - 3 = 0(x - 5)$

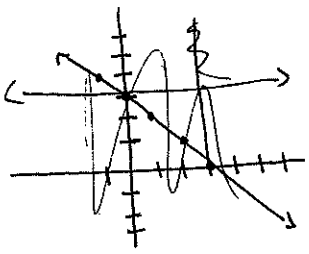
$y + 2 = -1x + 4$ $\quad$ $y = 3$

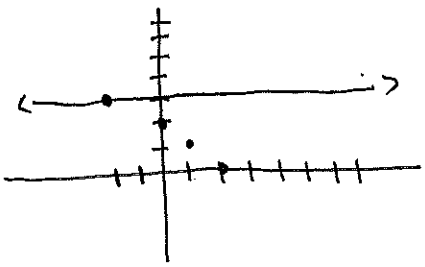
$y = -1x + 2$

$3 = -1x + 2$

$1 = -1x$

$x = -1$





Math 34A Winter 2020
Quiz #2c

No calculators

PRINT NAME Wendy Romero

PERM NUMBER 8356982

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 $(x, y) = (-3, 5)$ and $(4, -2)$, and
   - the line connecting the points $(x, y) = (-2, 3)$ and $(5, 3)$.

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

1. $\frac{y_2 - y_1}{x_2 - x_1} \rightarrow \frac{-2-5}{4-(-3)} = \frac{-7}{7} = -1$

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

$y - 5 = -1(x - (-3))$

$y - 5 = -x - 3$

$+5 \quad +5$

$y = -x + 2$

2. $\frac{y_2 - y_1}{x_2 - x_1} \rightarrow \frac{3-3}{5-(-2)} = \frac{0}{7} = 0$

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

$y - 3 = 0(x - (-2))$

$y = 3$

$3 = -7(x) - 16$

$3 = -7x - 16$

$7x = -3 - 16$

$\frac{7x}{7} = \frac{19}{7}$

$x = \frac{19}{7}$

Intersection

$3 = -x + 2$

$-3 \quad -3$

$x = -3 + 2$

$x = -1$

Math 34A Winter 2020
Quiz #2c

No calculators

PRINT NAME YZ Chen

PERM NUMBER
8215877

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 $(x, y) = (-3, 5)$ and $(4, -2)$, and
   - the line connecting the points $(x, y) = (-2, 3)$ and $(5, 3)$.

$(-3,5)$ $(4,-2)$
x y x_1 y_1

$$\frac{-2-5}{4+3} = -\frac{7}{7} = -1$$

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

$(-2,3)$ $(5,3)$
x y x_1 y_1

$$\frac{3-3}{5+2} = \frac{0}{7} = 0$$

$$y-3 = \frac{0}{7}(x-5)$$
$$y = x+3$$

$$-1x+2 = x+3$$
$$-1x = x+3-2$$
$$-1x = x+1$$
$$+1x \quad +1x$$
$$\frac{2x}{2} = \frac{-1}{2}$$
$$x = -\frac{1}{2} = -0.5$$

$$y = -0.5+3$$
$$y = 2.5$$

$$y = -1(-0.5)+2$$
$$y = 0.5+2$$
$$y = 2.5$$

$(x, y) =$ $(-0.5, 2.5)$