Math 34A Winter 2020
Quiz #2c

No calculators

Alyssah Tolentino
PRINT NAME

PERM NUMBER
9709965

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 $(5, 3)$.

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

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

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

$5 = 3 + b \rightarrow y = -1x + 2$

$2 = b$

$-x + 2 = 3$

$-x = 1$

$x = -1$

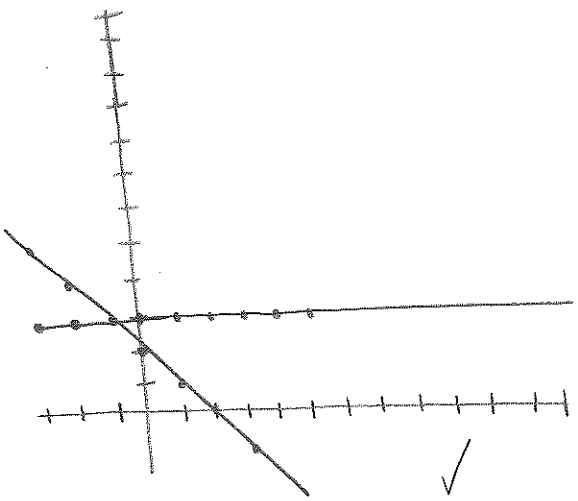
$\frac{3-3}{5-(-2)} = \frac{0}{7} = 0$

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

$b = 3$

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

$y = 3$



✓

Math 34A Winter 2020
Quiz #2c

No calculators

Abigayle Weitl
PRINT NAME

PERM NUMBER
8222036

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:

Line 1 • the line connecting the points $(x, y) = (-3, 5)$ and $(4, -2)$, and
Line 2 • the line connecting the points $(x, y) = (-2, 3)$ and $(5, 3)$.

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

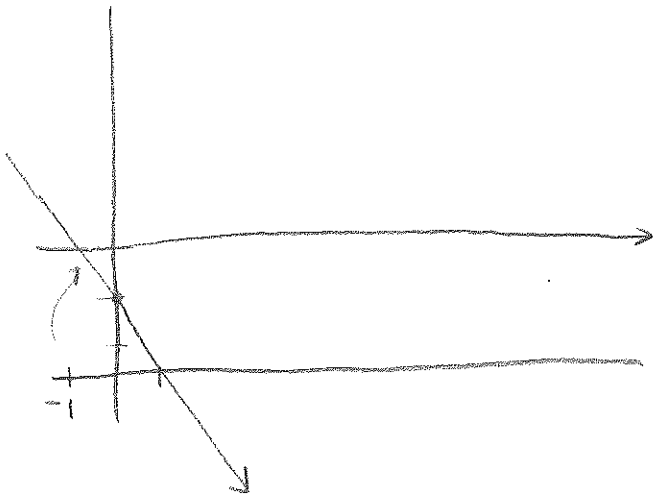
Line 1: $y = mx + b$

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

$y = -x + b \Rightarrow \boxed{y = -x + 2}$

$-2 = -(4) + b$ $\quad 5 = -(-3) + b$

$2 = b$ $\quad 2 = b$



Line 2

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

$\boxed{y = 3}$

$y = -x + 2$

$3 = -x + 2$

$1 = -x$

$-1 = x$

Math 34A Winter 2020
Quiz #2c

No calculators

PRINT NAME: Brisa Quezada

PERM NUMBER: 8445066

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 $(5, 3)$.

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

$\frac{y-y_0}{x-x_0} = \frac{-2-5}{4-3} = \frac{-7}{1} = -7$

$y = mx + b$

$y = -7x + b$

$5 = -7(-3) + b$

$5 = 21 + b$

$-21 \quad -21$

$-16 = b$

$y = -7x - 16$

$(x, y) =$ $\left(\frac{19}{-7}, 3\right)$

$-7x - 16 = 0x + 3$

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

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

$y = 0\left(\frac{19}{-7}\right) + 3$

$y = 3$ ✓

$-7\left(\frac{19}{-7}\right) - 16 = y$

$19 - 16 = y$

$3 = y$

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

$\frac{y-y_0}{x-x_0} = \frac{3-3}{5-2} = \frac{0}{3} = 0$

$y = 0x + 3$

$y = 0x + b$

$3 = 0(-2) + b$

$3 = b$

$\left(\frac{19}{-7}, 3\right)$

Math 34A Winter 2020
Quiz #2c

No calculators

PRINT NAME Elise Ziem

PERM NUMBER 3047172

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 $(5, 3)$.

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

$(x, y) = \left(\frac{5}{3}, 3\right)$

line 1:

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

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

line 2:

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

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

$y = -\frac{3}{7}x + b$

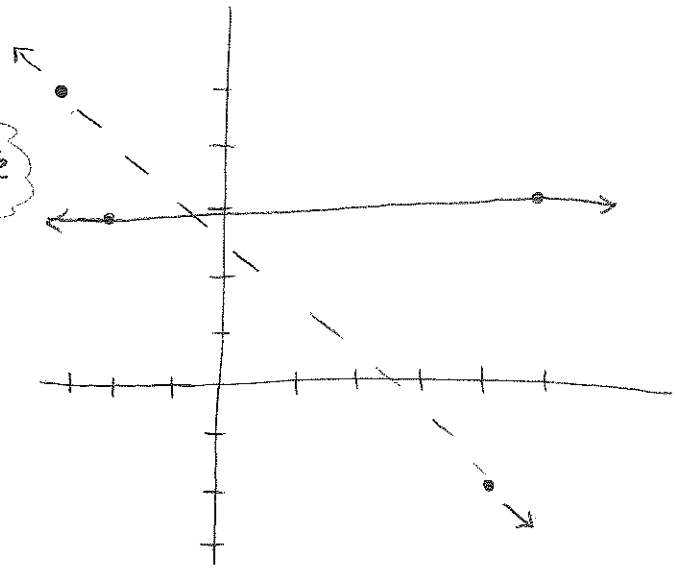
$5 = -\frac{3}{7}(-3) + b$

$5 = \frac{9}{7} + b$

$\frac{35}{7} - \frac{9}{7} = b$

$b = 26/7$

$y = -\frac{3}{7}x + \frac{26}{7}$



$3 = -\frac{3}{7}x + \frac{26}{7}$

$\frac{21}{7} = -\frac{3}{7}x + \frac{26}{7}$

$y = 3$

$-\frac{5}{7} = -\frac{3}{7}x$

$\div\frac{3}{7} \quad \div\frac{3}{7}$

$x = -\frac{5}{3}x - \frac{x}{3}$

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

Math 34A Winter 2020
Quiz #2c

No calculators

Fabiola Ixtaĩ Mateo
PRINT NAME

PERM NUMBER
9491127

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 $(5, 3)$.

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

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

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

$y - 5 = -x - 3 + 5$

$+5 \quad +5$

$y = -x + 2$

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

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

$y - 3 = x + 2$

$+3 \quad +3$

$y = x + 5$

$-x + 2 = x + 5$

$-x \quad -2 \quad -x \quad -2$

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

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

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

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

$y = \frac{7}{2}$

$(x, y) = \left(-\frac{3}{2}, \frac{7}{2}\right)$

Math 34A Winter 2020
Quiz #2c

No calculators

PRINT NAME Nathaly Castillo

PERM NUMBER 8153009

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 $(5, 3)$.

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

$\frac{Y - Y_0}{X - X_0}$

$(-3, 5)$ $(4, -2)$
$X_0\ Y_0$ $X\ Y$

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

linear equation #1: $y = -1x + 2$ or $y = -x + 2$

$y = mx + b$

$(-3, 5)$ $\quad 5 = -1(-3) + b$

$5 = 3 + b$

$-3 \quad -3$

$2 = b$

$(-2, 3)$ and $(5, 3)$
$X_0\ Y_0$ $X\ Y$

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

$(-2, 3)$ $\quad y = mx + b$

$3 = 0(-2) + b$

$3 = 0 + b$

$3 = b$

linear equation #2: $y = 0x + 3$ $\quad y = 3$

$3 = -x + 2$

$-2 \quad\quad -2$

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

$x = -1$

Math 34A Winter 2020
Quiz #2c

No calculators

Elizabeth Salcido
PRINT NAME

PERM NUMBER
8302028

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

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

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

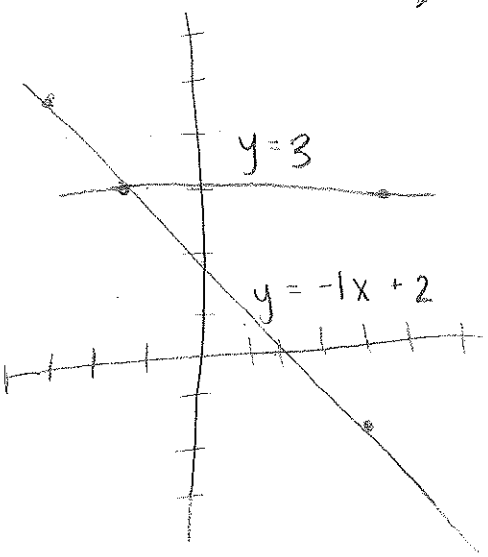
$\frac{3-3}{5-2} = \frac{0}{7} = 0$ because its a straight line

? Line 1: $y = -x + 2$ $\rightarrow 3 = -x + 2 \rightarrow x = 1$

Line 2: $y = 3$

?

picture



Math 34A Winter 2020
Quiz #2c

No calculators

PRINT NAME Siyuan Chen

PERM NUMBER 6918445

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

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

For line A, $y = k_1 x + b_1$

$k_1 = \frac{-2-5}{4-(-3)} = \frac{-7}{7} = -1$

$\Rightarrow y = -1x + b_1$, plug in $(-3, 5)$

$\Rightarrow 5 = -1 \cdot (-3) + b_1$

$5 = 3 + b_1$

$b_1 = 2$

$\therefore$ Line A: $y = -x + 2$

$y = 2 - x$

For line B, $y = k_2 x + b_2$

$k_2 = \frac{3-3}{5-(-2)} = \frac{0}{7} = 0$

$\Rightarrow y = 0x + b_2$, plug in $(-2, 3)$

$3 = 0 \cdot (-2) + b_2$

$b_2 = 3$

$\therefore$ Line B: $y = 0x + 3$

$\Rightarrow y = 3$

$\therefore$ Intersection:

$y_1 = y_2$

$\Rightarrow 2 - x = 3$

$-x = 1$

$x = -1$

$\Rightarrow$ Plug in, $y = 3(2 - -1)$

Math 34A Winter 2020
Quiz #2c

No calculators

Maile Buckman
PRINT NAME

PERM NUMBER
6848311

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 $(5, 3)$.

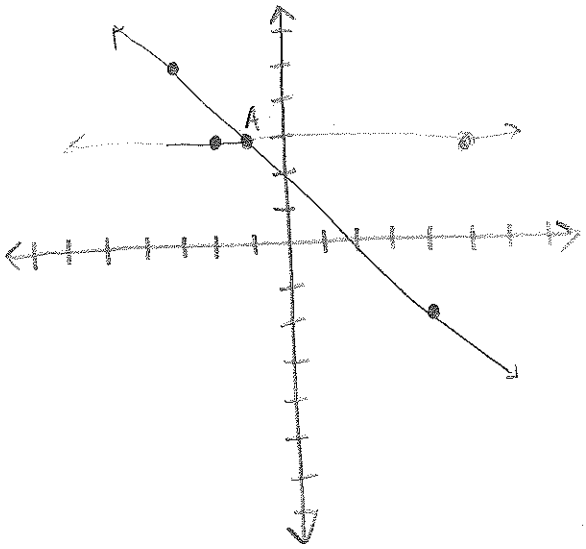
$(x, y) =$ $(-1, 3)$

- $y - y_0 = m(x - x_0)$
- $5 - (-2) = m(-3 - 4)$
  $7 = m(-7)$
  $m = -1$
  $y = mx + b$
  $5 = (-1)(-3) + b$
  $5 = 3 + b$
  $b = 2$
  $y = -x + 2$

- $y - y_0 = m(x - x_0)$
  $3 - 3 = m(-2 - 5)$
  $0 = m$ (unimportant)
  $m = 0$
  $y = mx + b$
  $y = b$
  $b = 3$
  $y = 3$

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

Revision:



Math 34A Winter 2020
Quiz #2c

No calculators

PRINT NAME Anna Bound

PERM NUMBER
8504920

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 $(5, 3)$.

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

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

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

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

$y = -1x + b$

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

$-2 = -4 + b$

$+4 \quad +4$

$b = 2$

$y = -x + 2$

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

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

$y = 0x + b$

$3 = 0(5) + b$

$b = 3$

$y = 3$

$3 = -x + 2$

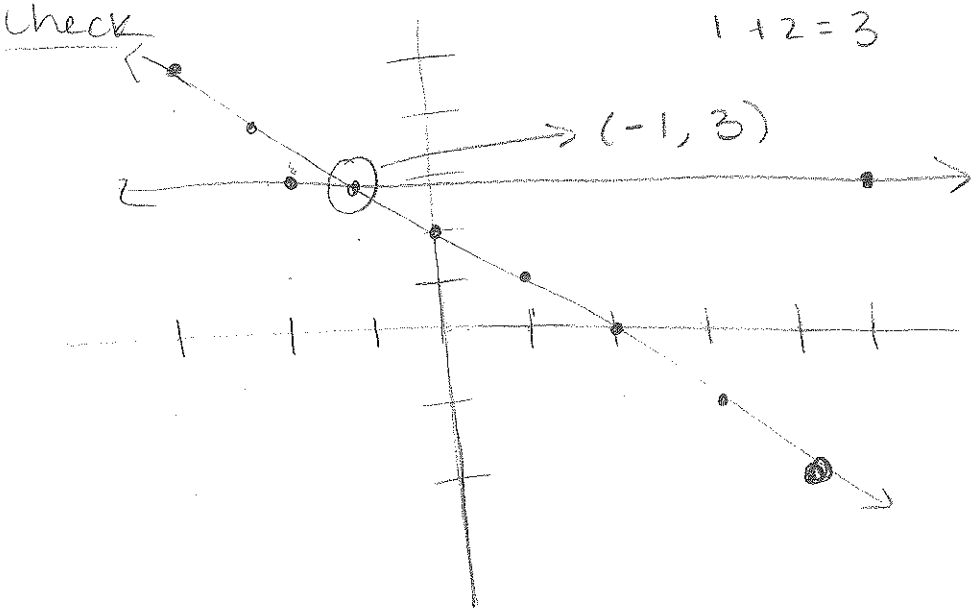
$-2 \quad -2$

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

$-(-1) + 2 = y$

$1 + 2 = 3$

Check



Math 34A Winter 2020
Quiz #2c

No calculators

PRINT NAME Mya Watts

PERM NUMBER 7481401

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 $(5, 3)$.

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

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

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

$y + 2 = -x - 4$ $\quad y = -x - 6$

$-2 \qquad -2$

eq. 2 $m = \frac{3-3}{5-2} = \frac{0}{7}$ undefined

Math 34A Winter 2020
Quiz #2c

No calculators

PRINT NAME Maya Schnall

PERM NUMBER 3347020

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 $(5, 3)$.

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

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

$$-2 = -4 + b$$

$$+4 \quad +4$$

$$2 = b$$

$$y = -1x + 2$$

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

$$3 = \frac{0}{7}(5) + b$$

$$b = 3$$

$$y = \frac{0}{7}x + 3$$

$$-1x + 2 = \frac{0}{7}x + 3$$

$$-2 \qquad -2$$

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

$$x = -1$$

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

$$y = 1 + 2$$

$$y = 3$$

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

Math 34A Winter 2020
Quiz #2c

No calculators

VEDA PARKER
PRINT NAME

PERM NUMBER
9810250

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 $(5, 3)$. = horizontal

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

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

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

$y - 5 = -x - 3$

$y = -x - 3 + 5$

$y = -x + 2$

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

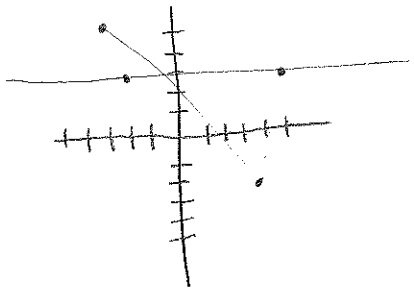
$y - 3 = 0$

$y = 3$

$3 = -x + 2$

$1 = -x$

$-1 = x$



Math 34A Winter 2020
Quiz #2c

No calculators

Tyler Garner
PRINT NAME

PERM NUMBER
9534025

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 $(5, 3)$.

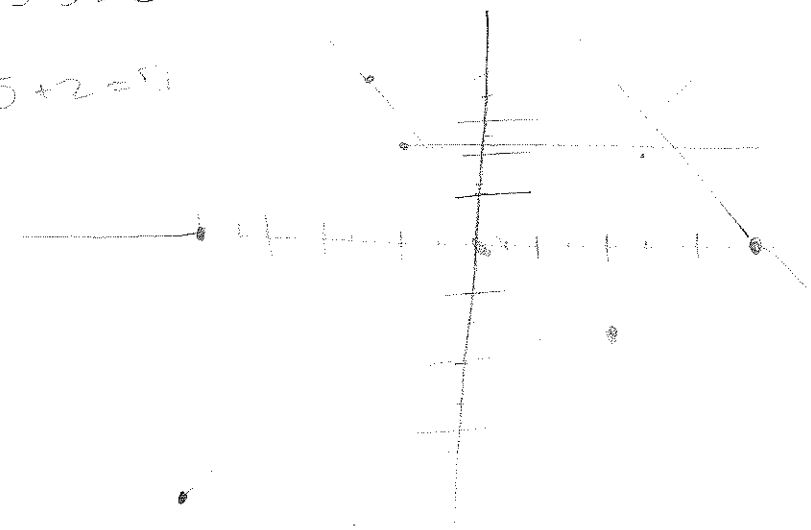
$y = -2 - 5 = -7$

$x = 4 + 3 = 7$

$y = 3 - 3 = 0$

$x = 5 + 2 = 7$

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



Math 34A Winter 2020
Quiz #2c

No calculators

Danigza Benitez
PRINT NAME

PERM NUMBER
8247835

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 $(5, 3)$.

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

① $y = mx + b$

$m = \frac{-7}{7}$ rise/run

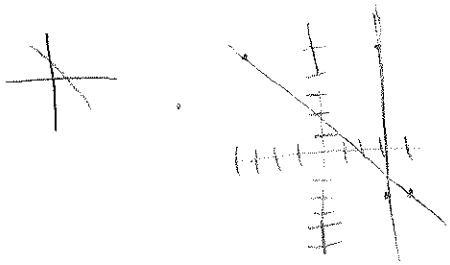
$y = -x + b$

$5 = -(-3) + b$

$5 = 3 + b$

$b = 2$

① $y = -x + 2$



② $y = mx + b$

$m = 0$

Math 34A Winter 2020
Quiz #2c

No calculators

Beau Hornsrithong
PRINT NAME

PERM NUMBER
3547056

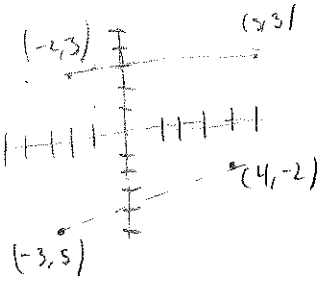
Put your answer in the box provided.

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 $(5, 3)$.



$m = -1$

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

$m = 0$

$m = \frac{3-3}{} = 0$

$y = mx + b$

$y = -1x + b$

$3 = 3 + b$

$2 = b$

$y = 0(x) + b$

$3 = b$

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

$y = 3$

$-1x + 2 = 3$

$-2 \quad -2$

$-1x = 1$

$x = -1$

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

Math 34A Winter 2020
Quiz #2c

No calculators

PRINT NAME Olivia Fether

PERM NUMBER
9815226

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:

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

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

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

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

$y = 8+x$

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

$8+x = 3-0(x+2)$

$8+x = 3$

$x = -5$

$y = 8+(-5)$

$y = 3$

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

Math 34A Winter 2020
Quiz #2c

No calculators

Kassie Smiggs
PRINT NAME

PERM NUMBER
8647995

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 $(5, 3)$.

$m_1 = \frac{-2-5}{4-3} = \frac{-7}{7} = -1$

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

$y = -x + 2$

$m_2 = \frac{3-3}{5-7} = \frac{1}{7}$

$y - 3 = \frac{1}{7}(x + 2)$

$y - 3 = \frac{1}{7}x + \frac{2}{7}$

$y = \frac{1}{7}x + \frac{23}{7}$

$\frac{1}{7}x + \frac{23}{7} = -x$

$x + 23 = -7x$

$8x = -23$

$x = -\frac{23}{8}$

$-\frac{23}{8} + 2 = y$

$y = \frac{7}{8}$

$(x, y) = \left(-\frac{23}{8}, \frac{7}{8}\right)$

Math 34A Winter 2020
Quiz #2c

No calculators

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

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

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

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

$y = mx+b$

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

$-2 = -4+b$

$+4 \quad +4$

$2 = b$

$y = -x+2$

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

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

$y = mx+b$

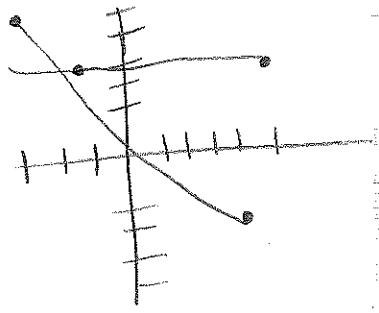
$3 = 0x+b$

$3 = b$

$y = 3$

$y = -(-1)+2$

$y = 3$



$3 = -x+2$

$-2 \quad -2$

$1 = -x$

$x = -1$

$3 = -1+b$

$+1 \quad +1$

$b = 4$

$-x+2 = 3$

$-x = 1$

$x = -1$

$(-1,3)$

$y = mx+b$

Math 34A Winter 2020
Quiz #2c

No calculators

Clay Clifton
PRINT NAME

PERM NUMBER
6993604

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 $(5, 3)$.

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

$y = mx + b$

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

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

$y + 2 = -x + 4$

$y = -x + 2$

$5 = -(-3) + 2$

$5 = 5$

$-x + 3 = \frac{2}{5}x + \frac{19}{5}$

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

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

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

$y = \frac{2}{5}x + \frac{4}{5} + 3\left(\frac{15}{5}\right)$

$y = \frac{2}{5}x + \frac{19}{5}$

$-x - \frac{2}{5}x = \frac{19}{5} - \frac{10}{5}$

$y = -(-3) + 2$

$y = 5$

$\left(\frac{5}{1}\right) - \frac{3}{5}x = \frac{9}{5}$

$\frac{-3x}{-3} = \frac{30}{-3}$

$x = -10$

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

$x = 3$

Math 34A Winter 2020
Quiz #2c

No calculators

PRINT NAME: TONY YANG

PERM NUMBER: 8003949

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 $-3a + b = 5$
② $4a + b = -2$

② − ①

$7a = -7$

$a = -1$

$-4 + b = -2$

$b = 2$

$y = -x + 2$

① $-2a + b = 3$
② $5a + b = 3$

⑤ − ①

$7a = 0$

$a = 0$

$b = 3$

$y = 3$

$-x + 2 = 3$

$-x = 1$

$x = -1$

Math 34A Winter 2020
Quiz #2c

No calculators

Grant Jamm
PRINT NAME

PERM NUMBER
681088

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 $(5, 3)$.

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

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

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

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

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

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

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

$y = -x+2$

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

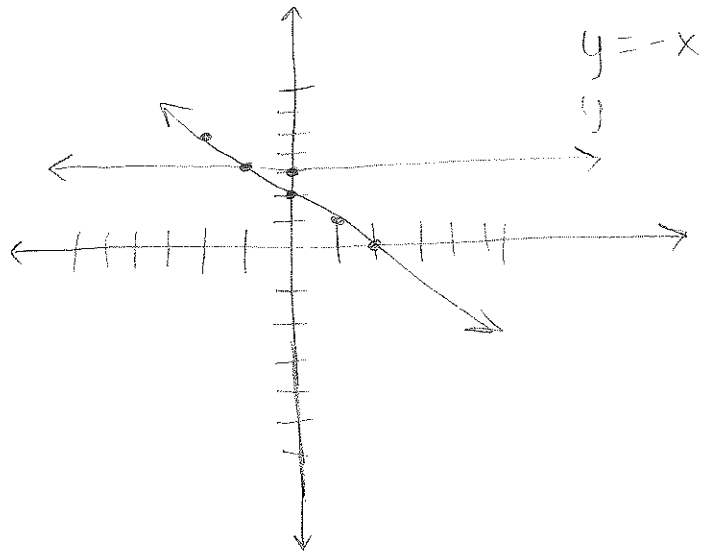
$\frac{3-3}{5-(-2)} = \frac{0}{7} = 0$

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

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

$y - 3 = 0x + 0$
$+3 \quad +3$

$y = 3$



Math 34A Winter 2020
Quiz #2c

No calculators

CAI, JULIE
PRINT NAME

PERM NUMBER
3479318

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 $(5, 3)$.

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

$y = kx + b$

① $\begin{cases} 5 = -3k + b \\ -2 = 4k + b \end{cases}$

$7k = -7$

$k = -1$

$-4 + b = -2$

$b = 2$

$y_1 = -x + 2$

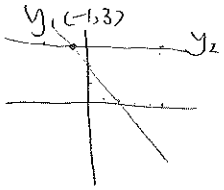
② $\begin{cases} 3 = -2k + b \\ 3 = 5k + b \end{cases}$

$3k = 0$

$k = 0$

$b = 3$

$y_2 = 3$



$3 = -x + 2$

$-x = 1$

$x = -1$

$(-1, 3)$

Math 34A Winter 2020
Quiz #2c

No calculators

Angel Solares
PRINT NAME

PERM NUMBER
9821265

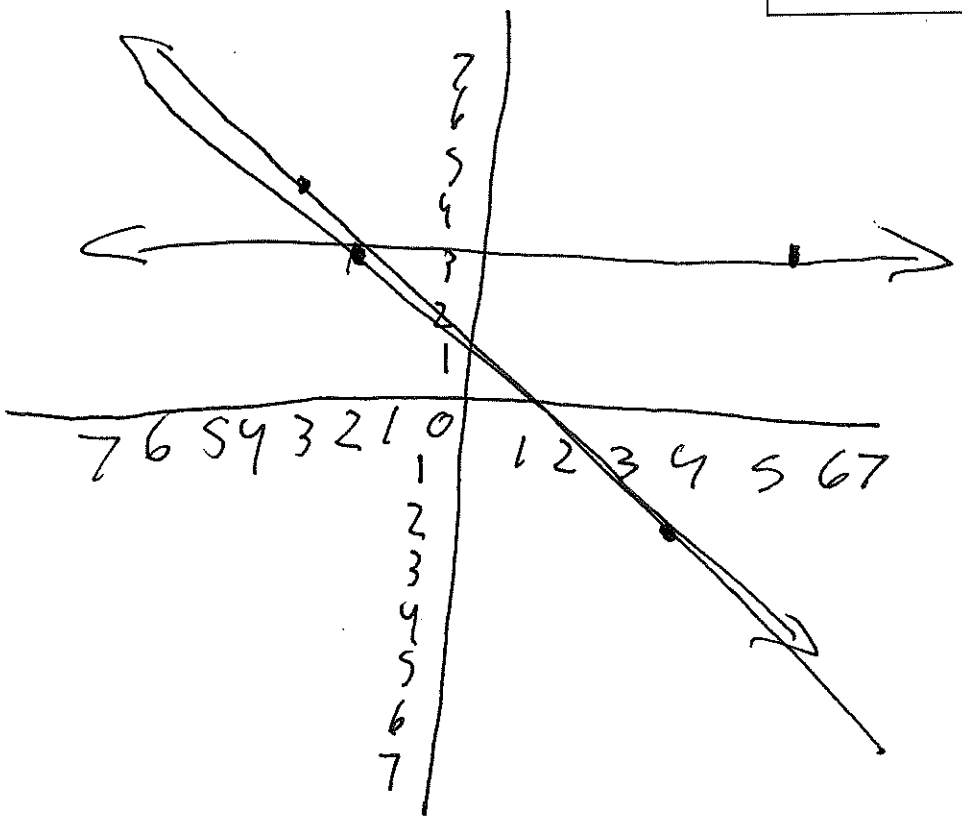
Put your answer in the box provided.

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 $(5, 3)$.

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



Math 34A Winter 2020
Quiz #2c

No calculators

Grace Cain
PRINT NAME

PERM NUMBER
9367517

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:

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

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

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

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

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

$y + 2 = -1x + 4$

$-2 \qquad -2$

$y = -x + 2$

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

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

$+3 \qquad +3$

$y = 3$

Math 34A Winter 2020
Quiz #2c

No calculators

Allinta Tadesse
PRINT NAME

PERM NUMBER
8045064

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 $(x, y) = (\overset{x_1}{-3}, \overset{y_1}{5})$ 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 $(\overset{x_2}{5}, \overset{y_2}{3})$.

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

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

$M_1 = \frac{-2-5}{4-(-3)} = \frac{-7}{7} = -1$

$M_2 = \frac{3-3}{5-(-2)} = \frac{0}{7} = 0$

$y = mx + b$

$y = -1x + b$

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

$5 = 3 + b$

$b = 2$

$y = -x + 2$

$y = mx + b$

$y = 0x + b$

$3 = 0(5) + b$

$3 = 0 + b$

$b = 3$

$y = 3$

set equal

$3 = -x + 2$

$-1 = -x$

$x = 1$

$y = -(1) + 2$

$y = 1$

Math 34A Winter 2020
Quiz #2c

No calculators

Karla Hernandez Leyva
PRINT NAME

PERM NUMBER
94157607

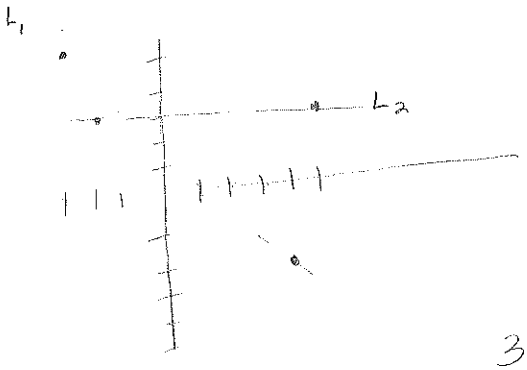
Put your answer in the box provided. **TA:** ☐ Garo ☐ Trevor ☐ Sam **Time:** ☐ 8am ☐ 5pm ☐ 6pm ☐ 7pm

---

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 $(5, 3)$.

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



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

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

$y = -1x + b$

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

$2 = b$

L_1 $m = -1$ L_2 $m = 0$

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

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

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

$-x + 4 - 2 = +3$

$-x = 1$

$x = -1$

$y = 0(5-(-2)) + 3$

$y = 3$

$(-1, 3)$

Math 34A Winter 2020
Quiz #2c

No calculators

Luisa Sanchez
PRINT NAME

PERM NUMBER
8252496

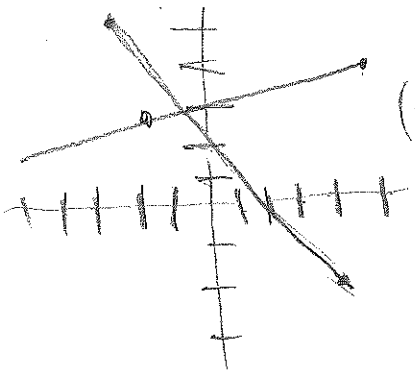
Put your answer in the box provided.

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, 3)

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

(-2, 3) (5, 3)

$5-(-2)$ $\quad -3-4$

$7 \quad -7$

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

$y - y_1 = \frac{5+2}{-3-4} \frac{7}{-7}$ $\quad 3-3$ $\quad 0$

$x - x_1$ $\quad -2-5=-7$

Math 34A Winter 2020
Quiz #2c

No calculators

Michaela Wong
PRINT NAME

PERM NUMBER
751773

Put your answer in the box provided. **TA:** ☐ Garo ☑ Trevor ☐ Sam **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 $(x, y) = (-3, 5)$ and $(4, -2)$, and
   - the line connecting the points $(x, y) = (-2, 3)$ and $(5, 3)$.

$(x, y) = \boxed{-\frac{63}{8}, \frac{79}{8}}$

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

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

$y - 5 = -1x - 3$

$+5 \quad +5$

$y = -x + 2$

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

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

$y - 3 = \frac{1}{7}(x+2)$

$y - 3 = \frac{1}{7}x + \frac{2}{7}$

$+3$

$y = \frac{1}{7}x + \frac{23}{7}$

$\frac{2}{1} - \frac{23}{2} \quad \frac{1}{7} \cdot \frac{23}{2} \quad -14$

$\frac{14}{7} - \frac{23}{2} \quad 9$

$-x + 2 = \frac{1}{7}x + \frac{23}{7}$

$-\frac{23}{7} \qquad -\frac{23}{7}$

$-x - 9 = \frac{1}{7}x + \frac{1}{1}x$

$+x$

$\frac{7}{8}(-9) = \frac{8}{7}x \cdot \frac{7}{8}$

$-\frac{63}{8} = x$

$y = -\left(-\frac{63}{8}\right) + 2$

$y = \frac{63}{8} + \frac{2}{1}$

$\frac{63}{8} + \frac{16}{8}$

$y = \frac{79}{8}$

Math 34A Winter 2020
Quiz #2c

No calculators

David Cecilio-Hernandez
PRINT NAME

PERM NUMBER
9571092

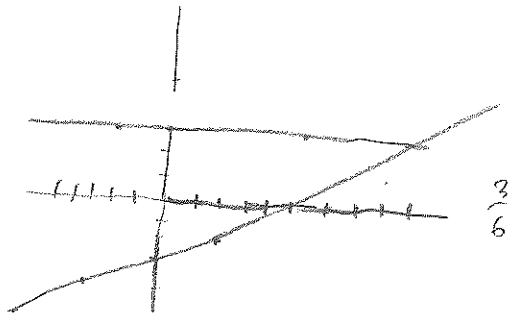
Put your answer in the box provided. **TA:** ☐ Garo ☒ Trevor ☐ Sam **Time:** ☐ 8am ☒ 6pm ☐ 5pm ☐ 7pm

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 $(5, 3)$.

$\frac{-2-5}{4-(-3)}$ $\quad \frac{-7}{7} = 1$ $\quad (x, y) =$ (12, 3)

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



$\frac{1}{2}$

$\frac{3}{6}$

Math 34A Winter 2020
Quiz #2c

No calculators

Dylan Lockwood
PRINT NAME

PERM NUMBER
7952195

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 $(5, 3)$.

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

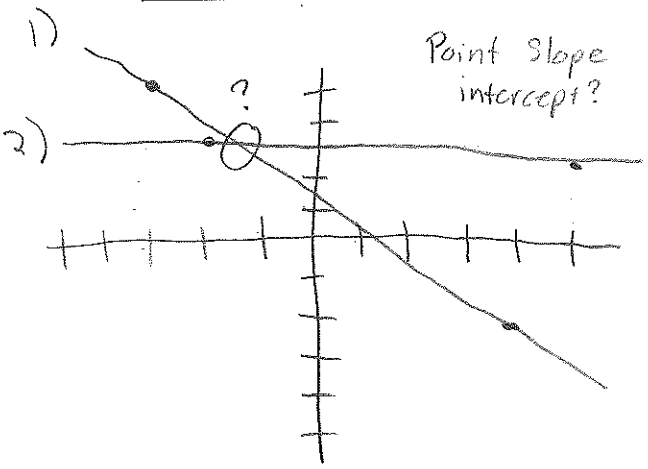
$y - y_1 = -1(x - x_1)$

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

$y - 5 = -x - 3$

$y = -x + 2$

$(x, y) =$ $(1.5, 3)$



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

Math 34A Winter 2020
Quiz #2c

No calculators

PRINT NAME Luis Quintero

PERM NUMBER
9343013

Put your answer in the box provided.

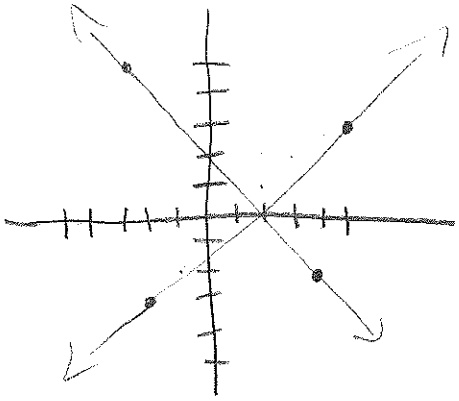
TA: ☐ Garo ☒ Trevor ☐ Sam

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 $(5, 3)$.

$(x, y) = \left(-\frac{6}{7}, 2\right)$



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

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

$y = mx + b$

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

$5 = 3 + b$

$-3 \quad -3$

$2 = b$

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

$\frac{21}{7} 3 = \frac{0}{7} + b$

$-\frac{0}{7} \quad -\frac{0}{7}$

$\frac{21}{7} = b$

$-1x + 2 = \frac{0}{7}x + \frac{21}{7}$

$-\frac{6}{7} = 1x$

Math 34A Winter 2020
Quiz #2c

No calculators

Jasmine Garcia
PRINT NAME

PERM NUMBER
8125239

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 $(5, 3)$.

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

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

$m_2 = \frac{3-3}{5+2} = \frac{0}{7} = 0$ $\quad y = 3$

$3 = -x + 2$

$-x = 1$

$x = -1$

$y = 3$

$y = -1x + b$

$5 = -(-3) + b$

$5 = 3 + b$

$b = 2$

Math 34A Winter 2020
Quiz #2c

No calculators

Angelina Yuan
PRINT NAME

PERM NUMBER
9310004

Put your answer in the box provided.

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

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 $(5, 3)$.

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

$y_1 = kx + b$.

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

$b = 5 + 3k = -2 - 4k$.

$7k = -7$

$k = -1$

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

$3 + b = 5$

$b = 2$.

$y_1 = -x + 2$.

$\therefore -x + 2 = 3$.

$-x = 1$

$x = -1$

$(-1, 3)$.

$y_2 = kx + b$.

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

$3k + b - (-2k + b) = 0$.

$5k + b + 2k - b = 0$.

$7k = 0$

$k = 0$.

$b = 3$.

$\therefore y_2 = 3$.

Check:

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

$5 + 3k = -2 - 4k$.

$7k = -7$

$k = -1$.

$b = 5 + 3k = 2$.

$y = -x + 2$.

$y = 3$.

$-x + 2 = 3$.

$-x = 1$

$x = -1$

Math 34A Winter 2020
Quiz #2c

No calculators

PRINT NAME Leonardo

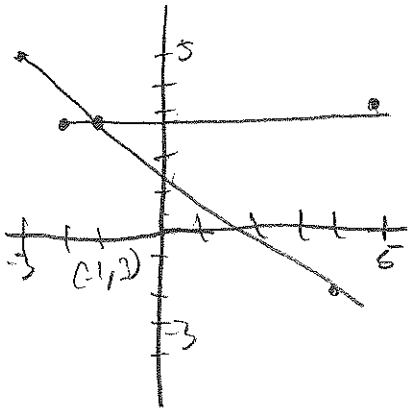
PERM NUMBER
961381-1

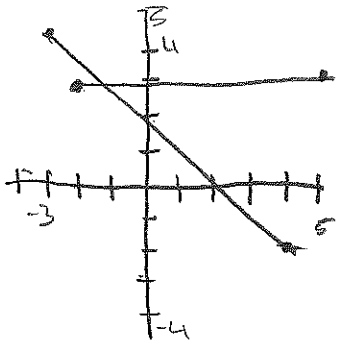
Put your answer in the box provided.

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 $(5, 3)$.

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





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

Math 34A Winter 2020
Quiz #2c

No calculators

CHENGYU YIN
PRINT NAME

PERM NUMBER
9753153

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 $(5, 3)$.

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

$y = ax + b$

$5 = -3a + b$

$-2 = 4a + b$

$7 = -7a$

$a = -1$

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

$5 = 3 + b$

$b = 2$

$y = -x + 2$

$-x + 2 = 3$

$-x = 3 - 2 = 1$

$x = -1$

$y = ax + b$

$3 = -2a + b$

$3 = 5a + b$

$15 = -10a + 5b$

$6 = 10a + 2b$

$21 = 7b$

$b = 3$

$y = 3$

$b = 3$

$3 = 5a + 3$

$5a = 0$

$a = 0$

Math 34A Winter 2020
Quiz #2c

No calculators

PRINT NAME Aaliyah Zendejas

PERM NUMBER 7765753

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 $(5, 3)$.

Formulas:

$(x, y) =$ 4,

Slope int. form: $y = mx + b$

point slope: $(y - y_1) = m(x - x_1)$

idk what its called: $\frac{y_2 - y_1}{x_2 - x_1}$

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

$(y - 4) = \frac{7}{7}(x - (-3))$

$+4 \quad +4$

$\frac{7}{7}(x - (-3)) + 4$

$x - (-3) + 4$

$y = x - 1$

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

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

$+3 \quad +3$

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

$y = x + 3$

$x + 3 = x - 1$

$-1 \quad -1$

$x = 4$

Math 34A Winter 2020
Quiz #2c

No calculators

Manuel Carrasco
PRINT NAME

PERM NUMBER
837291-4

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 $(5, 3)$.

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

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

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

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

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

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

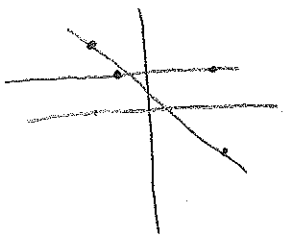
$x = -y + 2$

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

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

$y - 3 = 0$
$+3 \quad +3$

$y = 3$



Math 34A Winter 2020
Quiz #2c

No calculators

Beatrice Longakit
PRINT NAME

PERM NUMBER
6546675

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 $(5, 3)$.

$m = \frac{rise}{run} = \frac{5+2}{-3-4} = \frac{3}{-7}$ $\quad \frac{3-3}{5+2} = \frac{0}{7}$ $\quad (x, y) =$ (-2, 3)

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

$7y - 35 = -3x - 9$
$+35$

$\frac{7y}{7} = \frac{-3x-26}{7}$

$y = \frac{-3x-26}{7}$

$y = \frac{-3x-26}{7} \cdot 7$

$7y = -3x - 26$
$+26 \quad +26$

$\frac{7y+26}{3} = \frac{-3x}{-3}$

$x = -\frac{7}{3}y + \frac{26}{3}$

Math 34A Winter 2020
Quiz #2c

No calculators

PRINT NAME Krisdeanna Medina

PERM NUMBER 7833478

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 $(5, 3)$.

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

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

$y = mx + b$ $\quad y = m\left(\frac{-2-5}{4+3}\right) = \frac{-7}{7} = -1$

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

$+4 \quad +4$

$2 = b$

$(-2, 3)$ $(5, 3)$ $\quad y = m\left(\frac{3-3}{5+2}\right) = \frac{0}{7} = \emptyset$

$3 = 0(-2) + b \Rightarrow b = 3 \Rightarrow y = 3$

$\emptyset$

$-x + 2 = 3$

$-2 \quad -2$

$-x = 1 \Rightarrow x = -1$

Math 34A Winter 2020
Quiz #2c

No calculators

ALYSSA DESANGES
PRINT NAME

PERM NUMBER
9305798

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 $(5, 3)$.

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

$x_1\ y_1$

$(x, y) =$ 0, 0

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

$x_2\ y_2$

$y = mx + b$

$y = mx + b$

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

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

Math 34A Winter 2020
Quiz #2c

No calculators

PRINT NAME: Betsy Nunez

PERM NUMBER: 8361297

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

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

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

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

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

$y - 5 = -8x + 24$
$+5 \quad +5$

$y = -8x + 29$ → $y = -8(4) + 29$

$y = -32 + 29$

$y = -3$

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

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

$y + 2 = 0(x + 2)$

$y + 2 = x$

$(3) + 2 = x$

$5 = x$

Math 34A Winter 2020
Quiz #2c

No calculators

PRINT NAME Sam Barsema

PERM NUMBER 7972300

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 $(5, 3)$.

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

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

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

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

$y - 5 = -x - 3$

$y = -x + 2$

$3 = -x + 2$

$-1 = -x$

$1 = x$

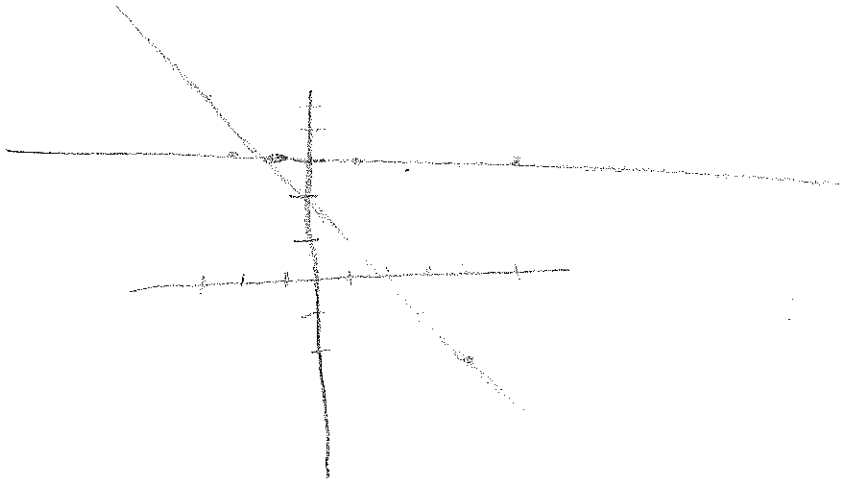
$3 = -x + 2$
$-2 \quad -2$
$1 = -x$
$x = -1$

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

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

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

$y = 3$



Math 34A Winter 2020
Quiz #2c

No calculators

Sydney Vizvary
PRINT NAME

PERM NUMBER
7832082

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 $(5, 3)$.

find slope

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

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

Slope = $y_1 - y_2$

find b

$y = -1x + b$

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

$-2 = -4 + b$

$+4 \quad +4$

$b = 2 \rightarrow y = -1x + 2$

slope

$\frac{3-3}{5+12} = \frac{0}{7} = 0$

b

$y = 0x + b$

$3 = 0(5) + b$

$3 = b \rightarrow y = 0x + 3$

set them equal

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

-3

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

$+1x$

$-1 = x$

$x = -1$ plug in x → $y = -1(1) + 2$

$y = -1 + 2$

$y = 1$

Math 34A Winter 2020
Quiz #2c

No calculators

Joyce Yingxuan Wu
PRINT NAME

PERM NUMBER
8378713

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 $(5, 3)$.

$y = mx + b$

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

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

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

$y = -x + b$

$5 = 3 + b$

$b = 2$

$y = -x + 2$

Line 1

$y = 3$

Line 2

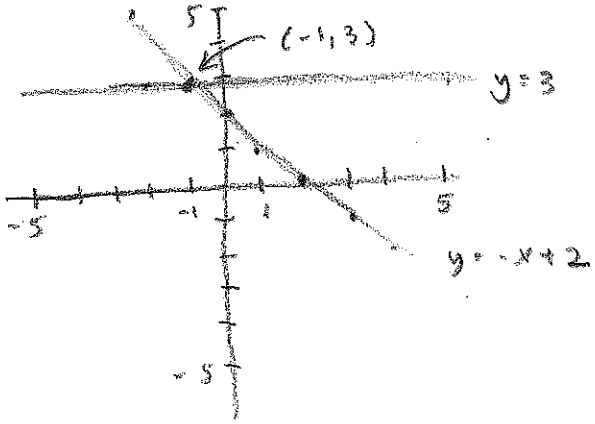
$3 = -x + 2$

$1 = -x$

$x = -1$

$y = 1 + 2$

$y = 3$ ✓



Math 34A Winter 2020
Quiz #2c

No calculators

PRINT NAME: James Aguilar

PERM NUMBER: 7313422

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 $(5, 3)$.

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

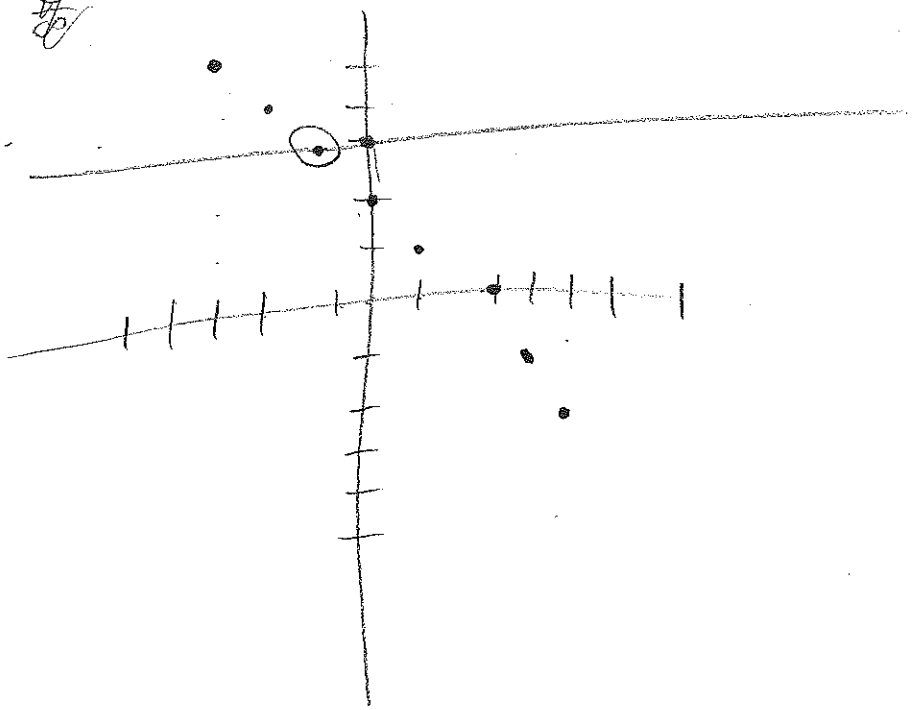
Slope line 1 $\frac{\text{rise}}{\text{run}}$ $\frac{7}{7} \Rightarrow 1$

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

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

$y = x + 2$

slope line 2 0



Math 34A Winter 2020
Quiz #2c

No calculators

PRINT NAME Korynn Nagle

PERM NUMBER 8032195

Put your answer in the box provided.

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

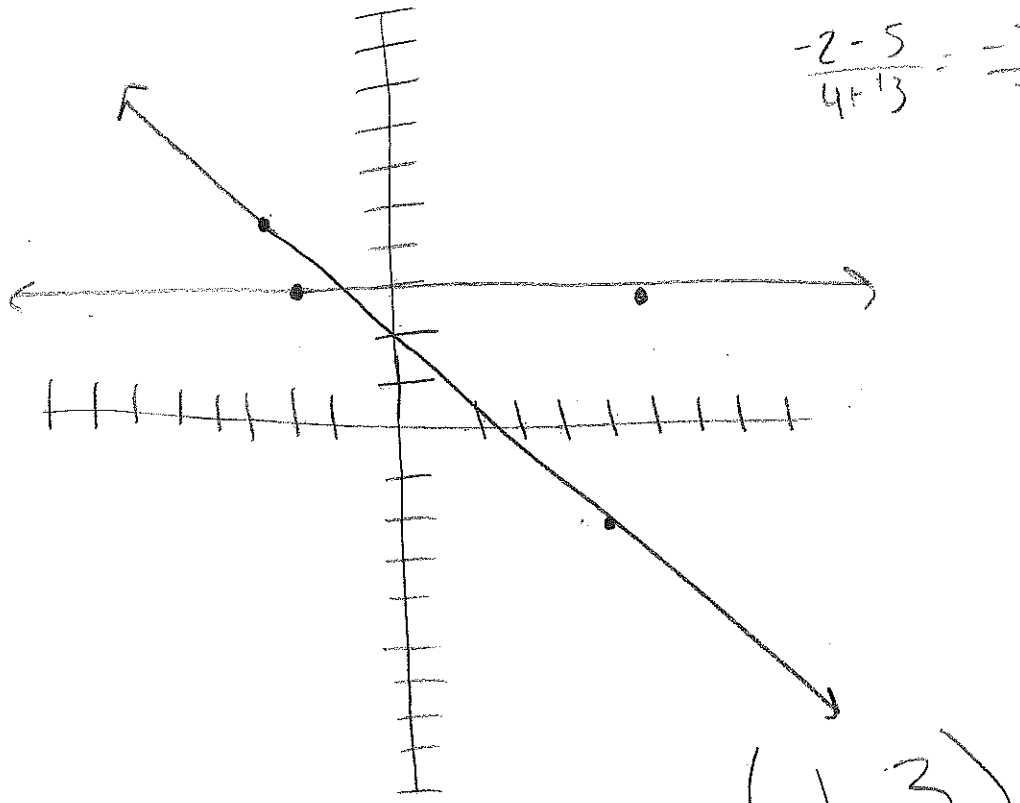
1. Find the (x, y) coordinates of the point of intersection between:

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

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

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

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



$(-1, 3)$

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

Math 34A Winter 2020
Quiz #2c

No calculators

Luis Suarez
PRINT NAME

PERM NUMBER
8368540

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 $(5, 3)$.

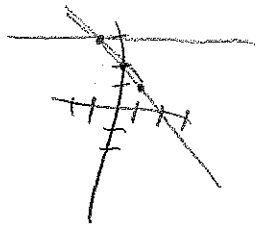
$\frac{5+2}{-3-4} = \frac{7}{-7} = -1$

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

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

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

$y = -x + 2$



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

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

$y - 3 = 0$
$+3 \quad +3$

$y = 3$

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

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

$-1 = x$

Math 34A Winter 2020
Quiz #2c

No calculators

PRINT NAME

PERM NUMBER

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 $(5, 3)$.

$(x, y) =$

Math 34A Winter 2020
Quiz #2c

No calculators

Michael Smith
PRINT NAME

PERM NUMBER
7837826

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 $(5, 3)$.

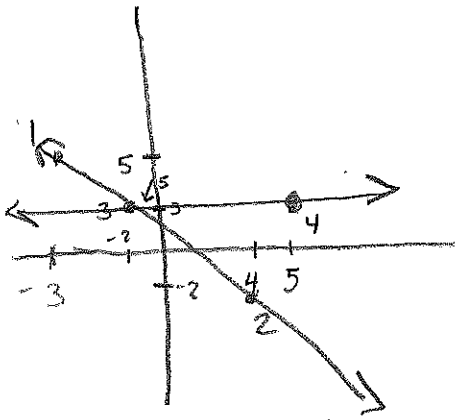
$(x, y) =$ $(-5, 3)$

-3, 5
-2, 4
-1, 3
0, 2
1, 1
2, 0
3, -1
4, -2

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

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

$y = mx + b$
$y = -x - 2$

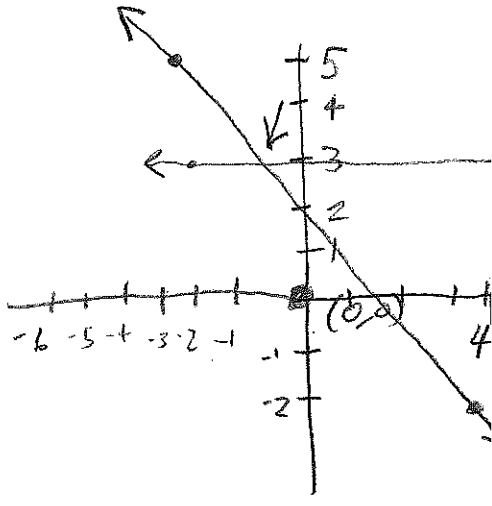


(x_1, y_1)
$(-2, 3)$
$(5, 3)$
(x_2, y_2)

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

$y = mx + b$
$y = 0x + 3$

$-x - 2 = 3$
$+2 \quad +2$
$-x = 5$
$x = -5$



Math 34A Winter 2020
Quiz #2c

No calculators

Tammy Collins
PRINT NAME

PERM NUMBER
9722695

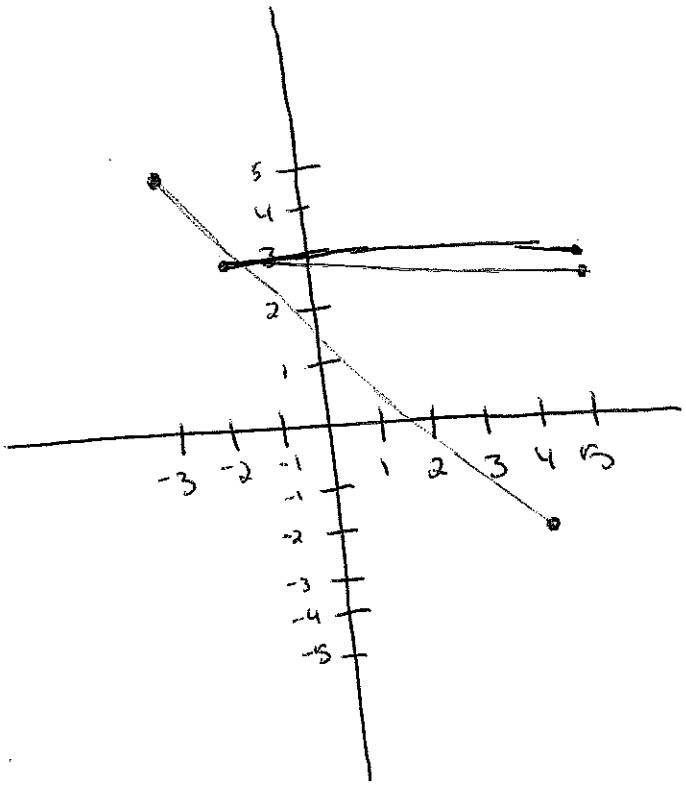
Put your answer in the box provided.

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 $(5, 3)$.

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



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

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

$y - 3 = 0$

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

$+5 \qquad +5$

$y = -1x - 3 + 5$

$y = -1x + 2$

$3 + 2$

$5 = -1x + 2$

$-3 \qquad -3$

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

$x = -2$

$y = 5$

$y = 0$

Math 34A Winter 2020
Quiz #2c

No calculators

PRINT NAME: Lesly Menjivar

PERM NUMBER: 8375529

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 $(5, 3)$.

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

$(x, y) =$ $(6.5, 9.5)$

1) $(-3,5)$ & $(4,-2)$

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

$y - (-2) = 3(x - 4)$

$y - (-2) = 3x - 12$

$y + 2 = 3x - 12$

$-2 \quad -2$

$y = 3x - 10$

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

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

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

$y - 3 = x - 0$

$+3 \quad +3$

$y = x + 3$

$3x - 10 = x + 3$

$-x \quad -x$

$2x - 10 = 3$

$+10 \quad +10$

$2x = 13$

$\frac{2}{2} = \frac{13}{2}$

$x = 6.5$

$y = 6.5 + 3$

$y = 9.5$

$6.5 \times 3 = 19.5$

$9.5 = 3(6.5) - 10$

$9.5 = 19.5 - 10$

$9.5 = 9.5$ ✓

Math 34A Winter 2020
Quiz #2c

No calculators

Andres S. Muñoz
PRINT NAME

PERM NUMBER
8736222

Put your answer in the box provided.

TA: ☐ Garo ☐ Trevor ☑ Sam

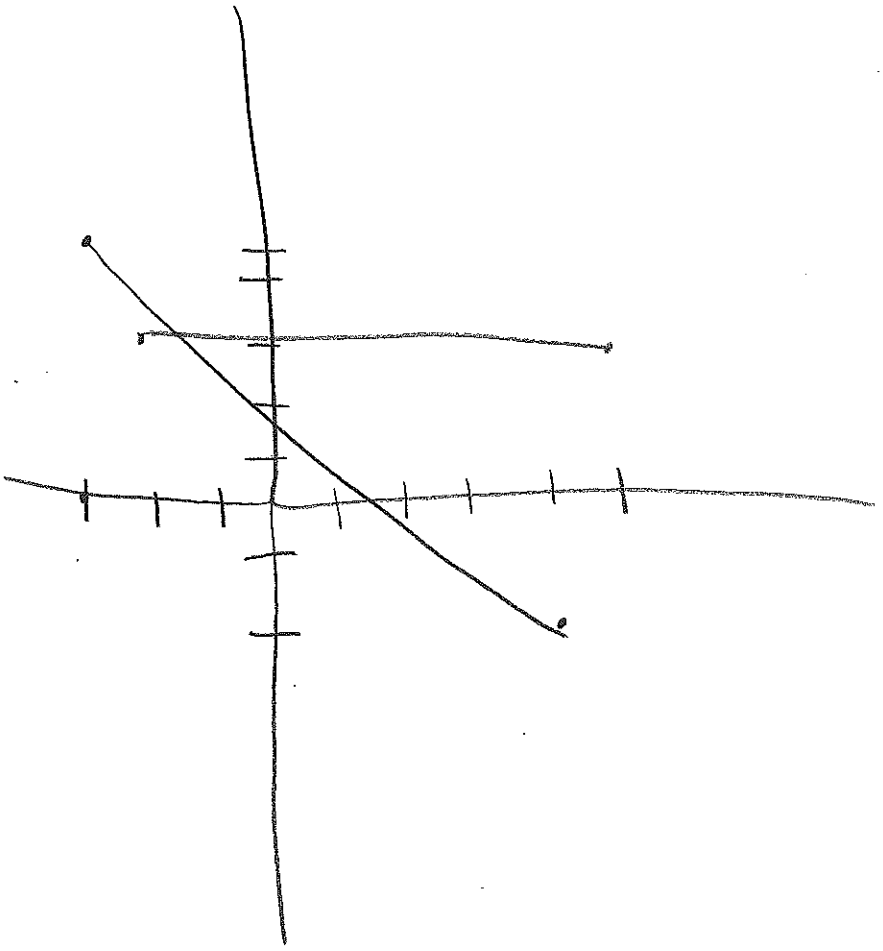
Time: ☐ 8am ☐ 6pm ☑ 5pm ☐ 7pm

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 $(5, 3)$.

$y_1 - y_0 = m(x_1 - x_0)$

$y_1 = y_0 + m(x_1 - x_0)$

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



Math 34A Winter 2020
Quiz #2c

No calculators

Sara Leonard
PRINT NAME

PERM NUMBER
7775520-8

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 $(5, 3)$.

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

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

$y = 1x + b$

$5 = 1(-3) + b$

$5 = -3 + b$

$+3 \quad +3$

$b = 8$

$y = 1x + 8$

$x = 3$

$y = 0x + 3$

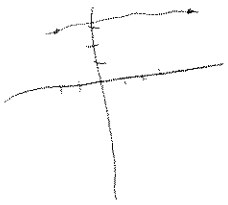
$y = 3$

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

$3 = 1x + 8$

$-8 \quad -8$

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



$y = 1(-5) + 8$

$y = -5 + 8$

$y = 3$

Math 34A Winter 2020
Quiz #2c

No calculators

PRINT NAME Grant Lewis

PERM NUMBER 8053480

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 $(5, 3)$.

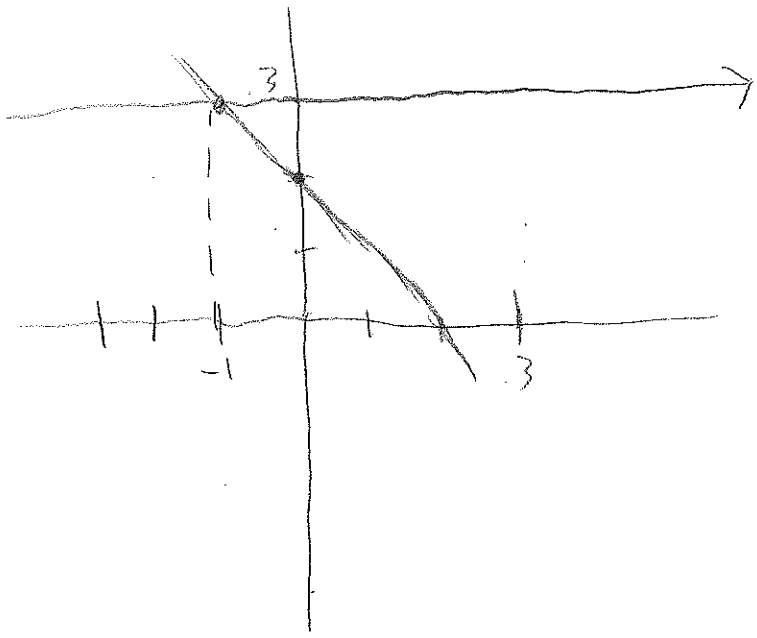
$\frac{-2-5}{4-(-3)} = \frac{-7}{7} = -1$

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

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

$y = -x - 2 + 4$

$y = -1x + 2$



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

$y = 3$

$3 = -x + 2$

$-2 \quad -2$

$1 = -x$

$-1 = x$

Math 34A Winter 2020
Quiz #2c

No calculators

PRINT NAME: Triston Fosgate

PERM NUMBER: 9731416

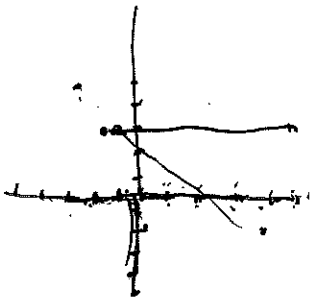
Put your answer in the box provided.

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 $(5, 3)$.

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



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

$(1, 3)$

0

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

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

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

$\frac{5}{3} \quad \frac{-2}{3}$

3

Math 34A Winter 2020
Quiz #2c

No calculators

Lucas Krall
PRINT NAME

PERM NUMBER
7820830

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 $(5, 3)$.

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

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

-1

$\frac{3-3}{5-2} \quad 0$

$y - y_1 = -1(x - x_1)$

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

$y = -x+4-2$

$y = -x+2$

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

$y-3 = 0$

$x = 3$

$3 = -x+2$

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

$y-5 = -x-3$

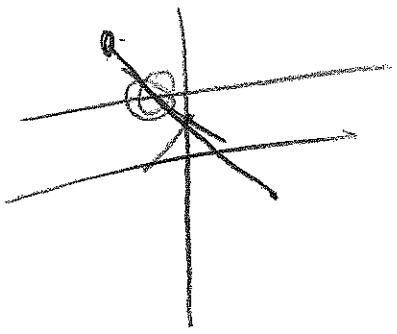
$y = -x+2$

$3 = -x+2$

$1 = -x$

-1

$-1, 3$



Math 34A Winter 2020
Quiz #2c

No calculators

PRINT NAME Kacey Rhinehart

PERM NUMBER 7776628

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 $(5, 3)$.

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

1 + 2 = 3

$= y = -1x + 2$

$= y = 0x + 3$

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

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

$-2 = -4 + b$

$+4 \quad +4$

$b = 2$

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

$y = 0x + b$

$3 = 0(5) + b$

$3 = 3$

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

$-2 \qquad -2$

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

$x = -1$

Math 34A Winter 2020
Quiz #2c

No calculators

Emily Lopez
PRINT NAME

PERM NUMBER
9787185

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 $(5, 3)$.

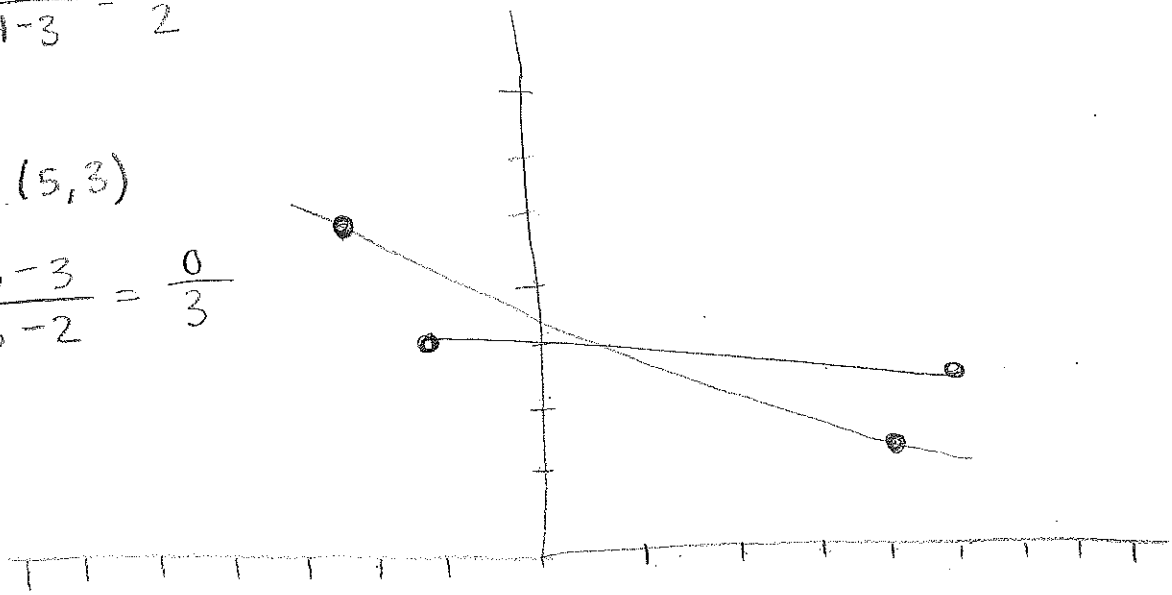
x_1, y_1 x_2, y_2
$(-3, 5) * (4, -2)$

$(x, y) =$ 1, 3

$\frac{x - x}{y - y} = \frac{5-2}{4-3} = \frac{3}{2}$

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

$\frac{x - x}{y - y} = \frac{3-3}{5-2} = \frac{0}{3}$



Math 34A Winter 2020
Quiz #2c

No calculators

Landon Mispagel
PRINT NAME

PERM NUMBER
8409864

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 $(5, 3)$.

$\frac{-2-5}{4+7} = -1$ $\quad \frac{3-3}{5+2} = 0$ $\quad (x, y) =$ $\boxed{(-1, 3)}$

$y = -x + b$ $\quad y = b$ $\quad \leftarrow y = 0(x) + b$

$5 = 3 + b$ $\quad b = 3$

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

$y = -x + 2$

$3 = -x + 2$

$-2 \quad -2$

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

Math 34A Winter 2020
Quiz #2c

No calculators

Ahmed Burdette
PRINT NAME

PERM NUMBER
7975295

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 $(5, 3)$.

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

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

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

$y = -x+4-2$

$y = -x+2$ — line 1

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

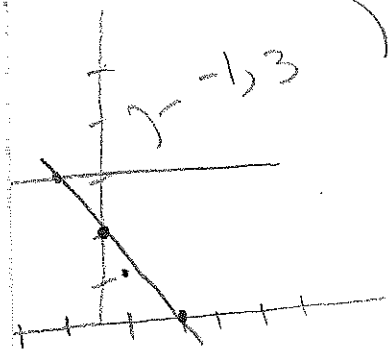
$y-3 = 0(x-5)$

$y-3 = 0$
$+3 \quad +3$

$y = 3$

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

$x = -1$



- checks out

Math 34A Winter 2020
Quiz #2c

No calculators

Christian Barragan
PRINT NAME

PERM NUMBER
842313-9

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

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

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

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

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

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

$y = -x - 3 + 5$

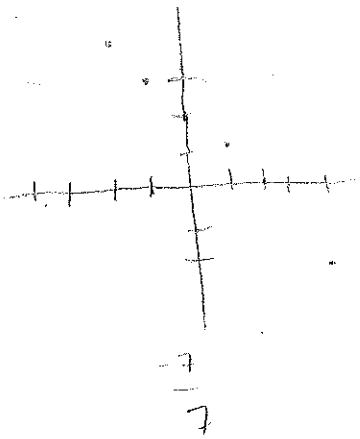
$y = -x + 2$ ✓

$-x + 2 = 3$

$-2 \quad -2$

$-x = 1$

$x = -1$



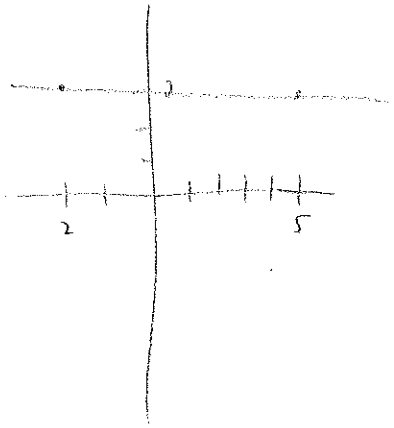
B. Slope $= \frac{y_2 - y_1}{x_2 - x_1} = \frac{3-3}{5+2} = \frac{0}{7} = 0$

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

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

$y = 0x + 0 + 3$

$y = 3$ ✓



Math 34A Winter 2020
Quiz #2c

No calculators

PRINT NAME Andrea Torres

PERM NUMBER 9561911

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 $(5, 3)$.

$(x, y) = \boxed{\left(\frac{-2}{7}, \frac{16}{7}\right)}$

$(-3, 5)\ (4, -2)$ $\quad -2+3\ \ 4+3$ $\quad 4-3$

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

$m = -1$

$y = -1x + b$

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

$5 = 3 + b$

$-3 \quad -3$

$b = 2$

$y = -1x + 2$

$(-2, 3)\ (5, 3)$ $\quad 5-(-2)\ \ 5+2 = 7$

$\frac{3-3}{5-(-2)} = \frac{0}{7}$ $\quad \frac{0}{7} \cdot 9$

$m = \frac{0}{7}$

$y = \frac{0}{7}x + b$

$3 = \frac{0}{7}(5) + b$

$3 = \frac{5}{7} + b$ $\quad \frac{24}{10}$

$-\frac{3}{7}$

$\frac{3}{1} \cdot \frac{5}{7}$ $\quad \frac{21}{7} - \frac{5}{7} = \frac{16}{7}$

$y = \frac{0}{7}x + \frac{16}{7}$

$-1x + 2 = \frac{0}{7}x + \frac{16}{7}$

$+1x \quad +1x \quad -\frac{16}{7}$

$\frac{2}{1} - \frac{16}{7} = \frac{0}{7}x + 1x$

$\frac{2}{1} \cdot \frac{14}{7}$ $\quad \frac{0}{7} \cdot 1$

$\frac{14}{7} - \frac{16}{7}$ $\quad \frac{-2}{7} = 1x$ $\quad \frac{0}{7} + \frac{7}{7} = \frac{7}{7} = 1$

$-\frac{2}{7}$ $\quad \boxed{-\frac{2}{7} = x}$

$y = -1\left(\frac{2}{7}\right) + 2$

$\left(\frac{2}{7}\right) + 2$

$\frac{2}{7} + \frac{2}{1}$

$\frac{2}{7} + \frac{14}{7} = \frac{16}{7}$

Math 34A Winter 2020
Quiz #2c

No calculators

Rodolfo Magaña Lopez
PRINT NAME

PERM NUMBER
9609637

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 $(5, 3)$.

1: $(-3,5)$ $(4,-2)$

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

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

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

$-4 + b$

$b = 2$

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

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

$y = 3$ ✓

$3 = -1x + 2$

$1 = -1x$

$x = -1$

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

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

$3 = 0(5) + b$

$b = 3$

$y = 0x + 3$

$y = 0(-1) + 3$

$y = 3$ ✓

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

$-1x + 2 = 3$

$-1x = 1$

$x = -1$

$y = 0 + 3$

$y = 3$

$y - 3 = 0x$

$x = 0$

$y = 3$

$-y + 2 = 0$

$y = 0(-1) + 2$ $\quad y = 2$

Math 34A Winter 2020
Quiz #2c

No calculators

Cole Lewis
PRINT NAME

PERM NUMBER
7452106

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 $(5, 3)$.

$y = mx + b$

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

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

$y = -1x + 2$

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

$y = 3$

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

$5 = 3 + b$

-3

$b = 2$

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

$-x + 2 = 3$

$-2 \quad -2$

$-x = 1$

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

$x = -1$

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

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

$3 = b$

$y = 0x + 3$

Math 34A Winter 2020
Quiz #2c

No calculators

Jonathan Carranza
PRINT NAME

PERM NUMBER
9850348

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 $(5, 3)$.

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

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

$y = 1x + b$

$5 = 1(-3) + b$

$5 = -3 + b$

$8 = b$

$y = -1x + 8$

$3 = -1x + 8$

$-8 \quad -8$

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

$5 = x$

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

$y = 0x + b$

$3 = (0)(-2) + b$

$3 = 0 + b$

$3 = b$

$y = 0x + 3$

$y = 3$

Math 34A Winter 2020
Quiz #2c

No calculators

Yunitzi ramos
PRINT NAME

PERM NUMBER
9581729

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 $(5, 3)$.

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

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

$y - 5 = -x - 3$

$y = -x + 2$

$\frac{3-3}{5+2} = \frac{0}{7}$ $\quad y - 3 = \frac{0}{7}(x+2)$

$y - 3 = \frac{0}{7}x + \frac{0}{7}$ $\quad \frac{3}{1} + \frac{0}{7} = \frac{21}{7} - 3$

$y = \frac{0}{7}x + 3$

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

$-\frac{0}{7}x + 2 = -\frac{0}{7}x - 2$

$-x = 1$

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

$y = 1 + 2$

$y = 3$

Math 34A Winter 2020
Quiz #2c

No calculators

Vivian Hsiao
PRINT NAME

PERM NUMBER
8417008

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 $(5, 3)$.

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

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

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

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

$b = -2 + 4$

$= 2$

$3 = 5(0) + b$ $\quad y = 3$

$b = 3$

$3 = -x + 2$

$3 - 2 = -x$

$1 = -x$

$x = -1$

Math 34A Winter 2020
Quiz #2c

No calculators

Lance Estillore
PRINT NAME

PERM NUMBER
9782368

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 $(5, 3)$.

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

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

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

$y - 5 = -x - 3$

$y = -x + 2$

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

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

$y - 3 = 0$

$y = 3$

$3 = -x + 2$

$-x = 1$

$x = -1$

$y = -(-1) + 2$

$y = 1 + 2$

$y = 3$

$y = -x + 2$

$3 = -(-1) + 2$

$3 = 3$ ✓

Math 34A Winter 2020
Quiz #2c

No calculators

Danielle Smith
PRINT NAME

PERM NUMBER
8007155

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 $(5, 3)$.

$7\begin{pmatrix} -3 & 5 \\ 4 & -2 \end{pmatrix} - 7$

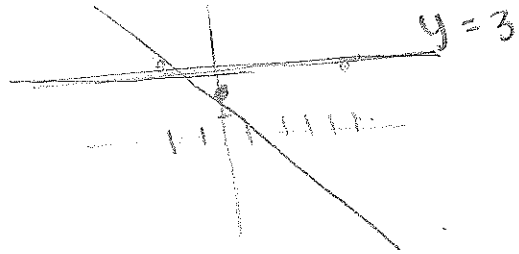
$\frac{7}{-7} = -1$

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

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

$7\begin{pmatrix} -2 & 3 \\ 5 & 3 \end{pmatrix} 0 \quad \frac{0}{7} = 0$

Draw



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

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

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

$x = -1$

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

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

$x = 1$

Math 34A Winter 2020
Quiz #2c

No calculators

Elyssa Samayoa
PRINT NAME

PERM NUMBER
7916935

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 $(5, 3)$.

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

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

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

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

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

$y = 0 \times b$
$3 = 0(5) + b$
$3 = b$
$y = 3$

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

Math 34A Winter 2020
Quiz #2c

No calculators

Lindsey Austin
PRINT NAME

PERM NUMBER
8112507

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)

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

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

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

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

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

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

Math 34A Winter 2020
Quiz #2c

No calculators

PRINT NAME Luis Chavez

PERM NUMBER 8411829

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 $(5, 3)$.

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

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

$-(-3)+2 = 5$

$-(4)+2 = -2$

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

$-x + 2 = 3$

$-2 \quad -2$

$-x = 1$

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

$x = -1$

$y = -(-1) + 2$

$= 1 + 2$

$= 3$

Math 34A Winter 2020
Quiz #2c

No calculators

PRINT NAME

PERM NUMBER

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 $(5, 3)$.

$(x, y) =$

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

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

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

$y - 5 = -x - 3$

$y = -x + 2$

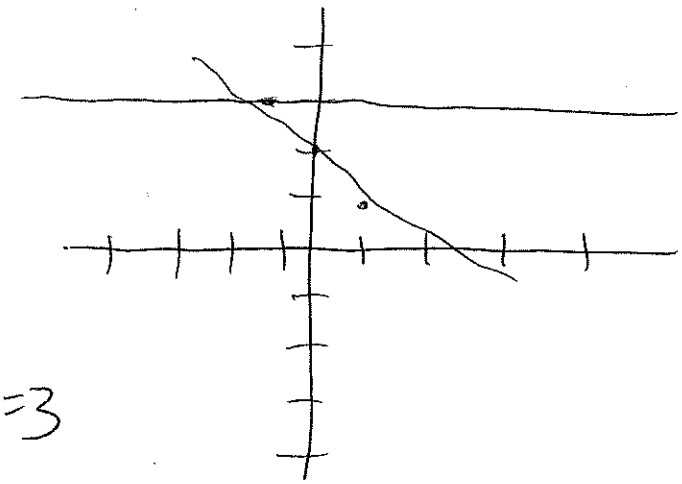
L_2: $(-2, 3)$ $(5, 3)$
x_1 y_1 x_2 y_2

$3 - 3 = 0$ 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

---

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 $(5, 3)$.

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

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

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

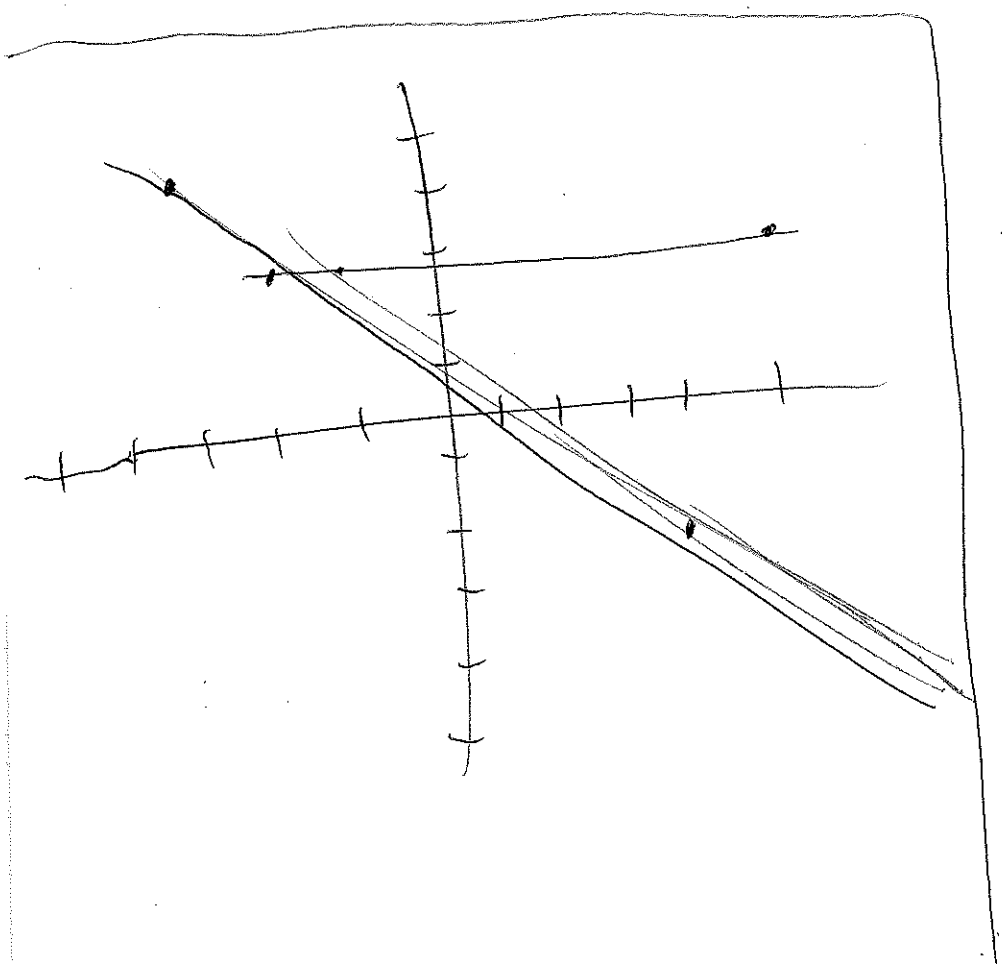
$5 = 3 + b$

$2 = b$

$y = -x + 2$

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

$3 = b$ $y = 3$



$3 = -x + 2$

$1 = -x$

$x = -1$

$y = 3$

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

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

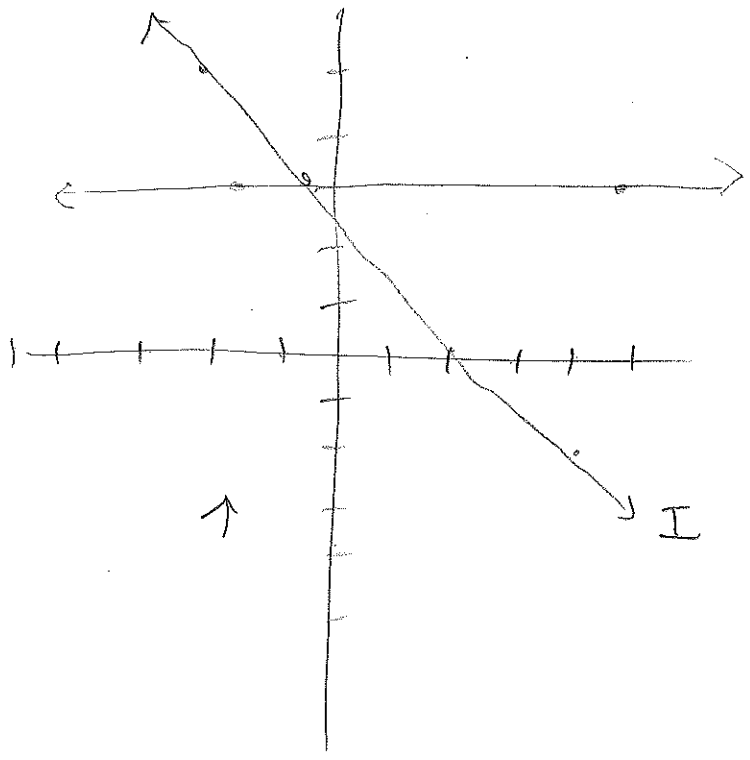
$(-3,5)$ $y - y_1 = m(x - x_1)$
$y - 5 = -1(x - -3)$
$y - 5 = -1(x + 3)$
$y - 5 = -1x - 3$
$+5$
$y = -1x + 2$

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

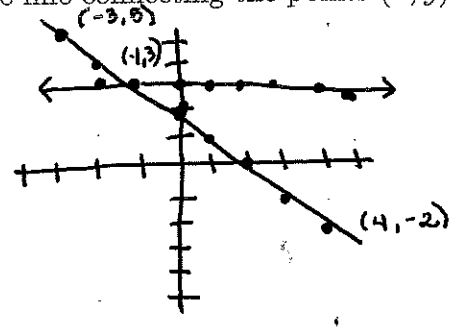
Put your answer in the box provided.

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.

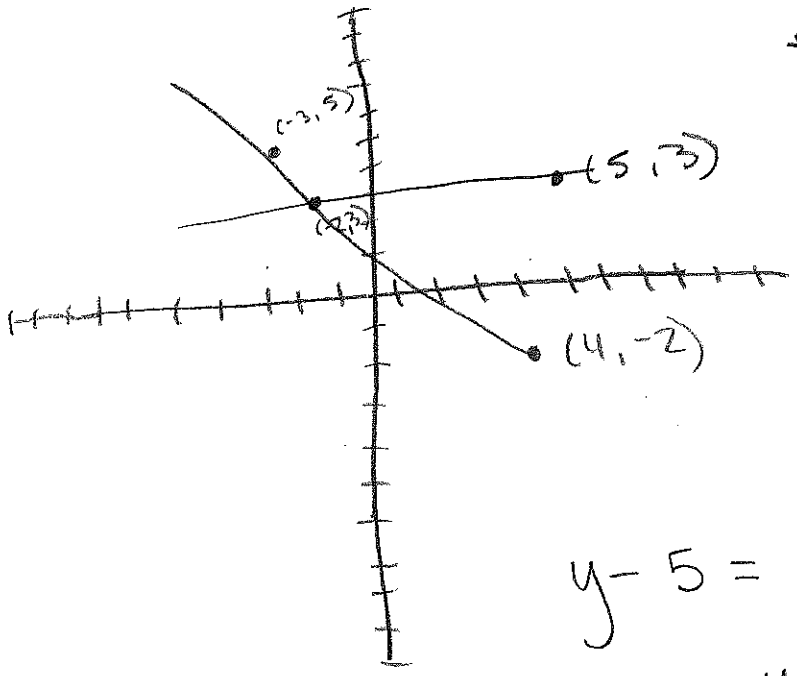
TA: ☒ Garo ☐ Sam ☐ Trevor **Time:** ☐ 8am ☒ 5pm ☐ 6pm ☐ 7pm

---

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

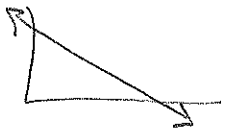
---

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 $(5, 3)$.

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

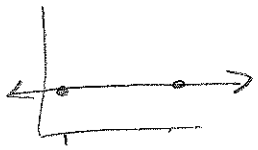
L_1:

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



$y + 2 = -1(x - 4)$
$y + 2 = -x + 4$
-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 $(5, 3)$.

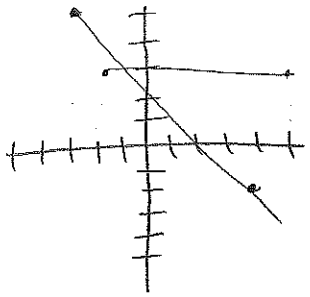
$L_1 \rightarrow \frac{-2-5}{4+3} = \frac{-7}{7} = -1 = m$

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

$(x, y) =$ **(−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: $m = \frac{3-3}{5-(-2)} = \frac{0}{7} = 0$

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

$y - 3 = 0 - 0 = 0$

$y = 3$

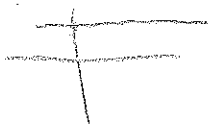
$3 = -x + 2$

$1 = -x$

$x = -1$

$y = -(-1) + 2$

$y = 3$



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

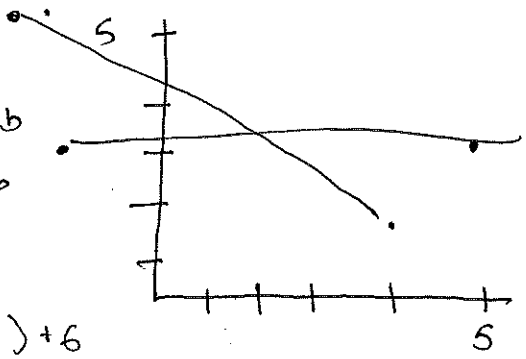
$L_1(y = 1x + 6)$

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

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

$L_2(y = 0x + 3)$

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



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

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

$1x + 6 = 3$

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 $(5, 3)$.

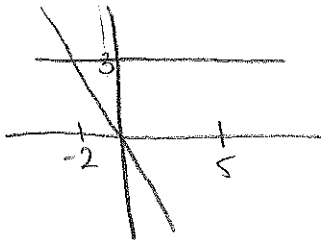
L_1: $\frac{-2-5}{4-(-3)} = \frac{-7}{7} = -1$

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

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

$y = -1x - 3 + 5$

$y = -1x + 2$



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

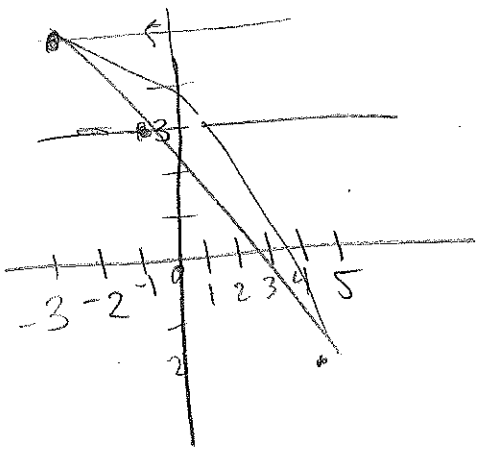
$y - 3 = 0(x + 5)$

$y = 3$

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

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

$x = 1$



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 $(5, 3)$.

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

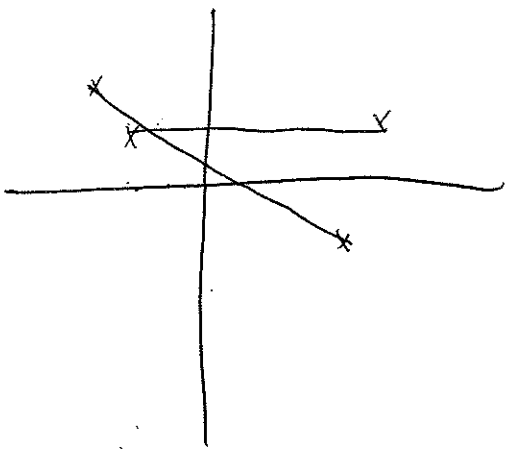
$\frac{7}{-7}$ $\frac{-7}{-7}$ $(2, 3)$

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

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

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

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



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)**

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

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

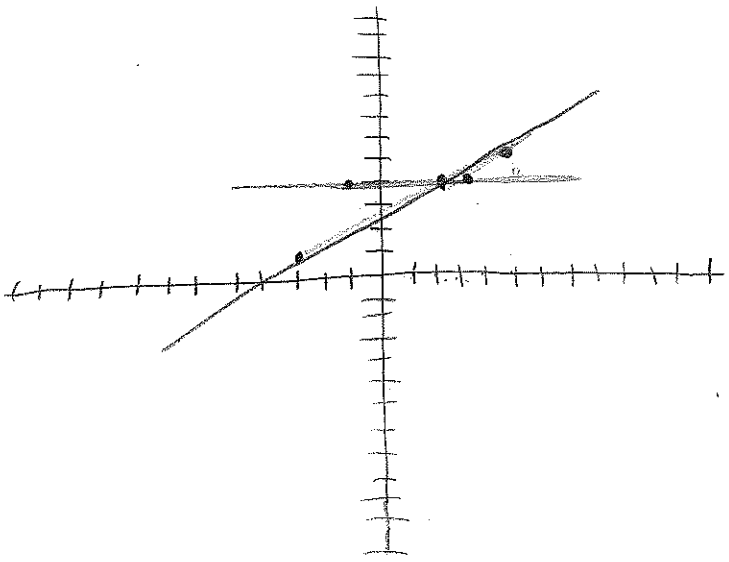
$\frac{2}{1} \cdot \frac{3}{2} = x$

$6/2 = x$

$= 3$

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

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



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

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

Math 34A Winter 2020
Quiz #2c

No calculators

PRINT NAME Evan Harris

PERM NUMBER 7309073

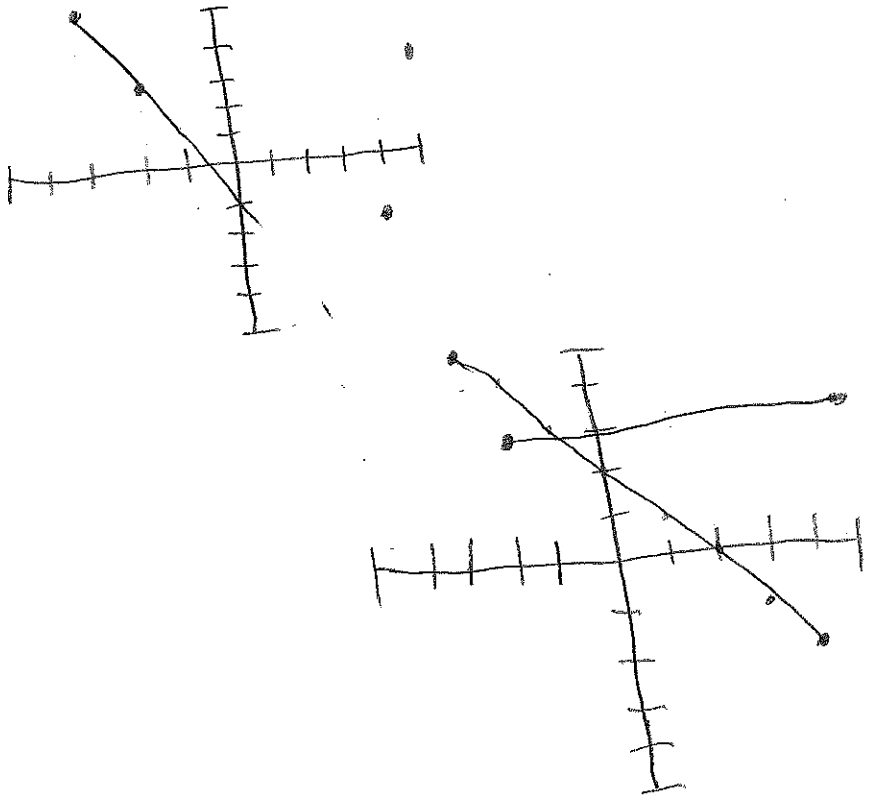
Put your answer in the box provided.

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 $(5, 3)$.

$y = kx + b$

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

$7k = -7$

$k = -1$

$3 + b = 5$

$b = 2$

$y = -x + 2$

$y = kx + b$

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

$0 = 7k$

$k = 0$

$0 + b = 3$

$b = 3$

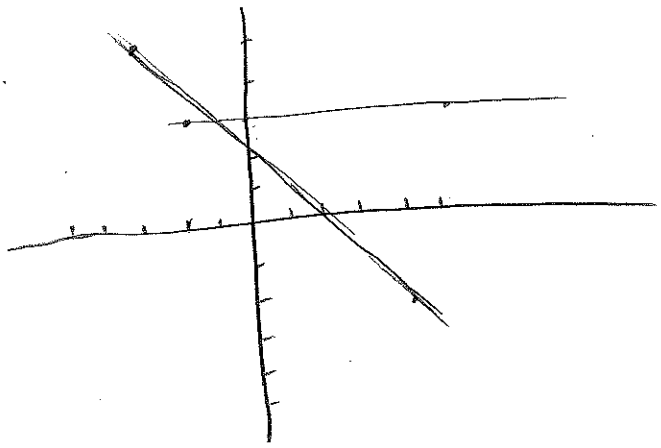
$y = 3$

$-x + 2 = 3$

$-x = 1$

$x = -1$

$(x, y) =$ (-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

$Y = X + 9$

$Y = X + 1$

$X + 1 = X + 9$

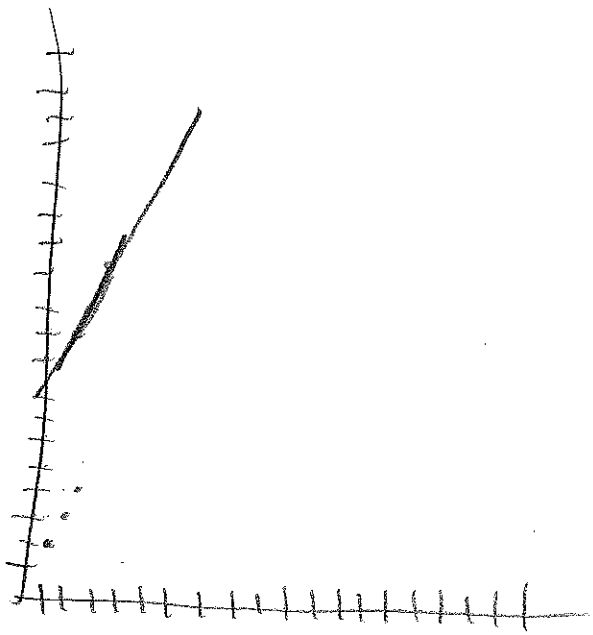
$X = X + 8$

$m = 1$

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

$X - 4 + 5 = Y$

$Y = X + 1$



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:

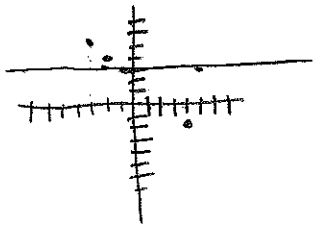
   - the line connecting the points $(x, y) = (-3, 5)$ and $(4, -2)$, and
   - the line connecting the points $(x, y) = (-2, 3)$ and $(5, 3)$.

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

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

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

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 $(5, 3)$.

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

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

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

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

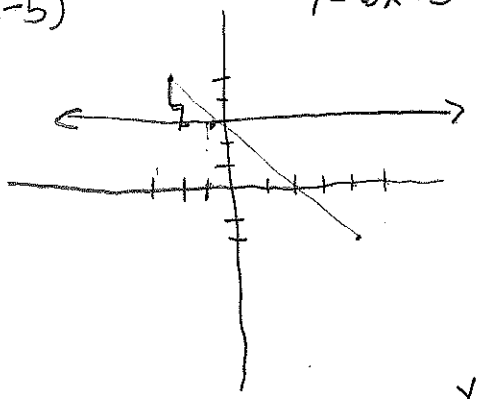
$Y = 0X + 3$

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

$Y - 5 = 0$

$Y = 5$

$Y = -X + 5 + 3$



$3 = -X + 8$

$X = 5$

$Y = 3$

$-1, 3$

$3 = -X + 2$

$1 = -X$

$-1 = X$

$Y = 0X + 3$

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

$Y + 2 = -X + 4$

$Y = -X + 2$

$Y + 2 = -1(X - 4)$ (−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)**

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

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

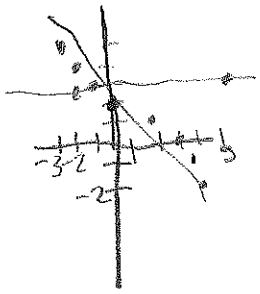
$y = -x + 4 - 2$

$y = -x + 2$

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

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

$y = 3$



$3 = -x + 2$

$1 = -x$

$x = -1$

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:

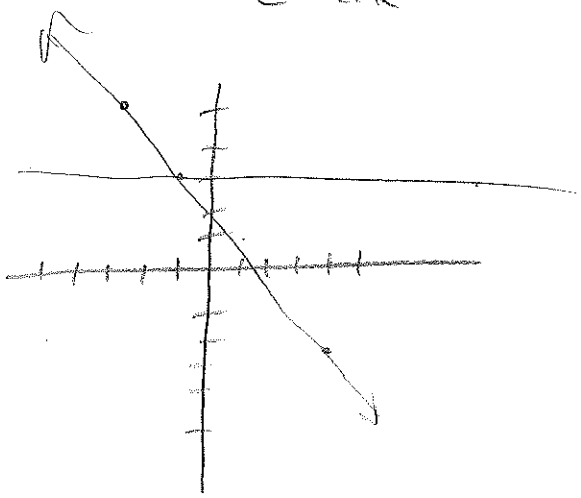
   - the line connecting the points $(x, y) = (-3, 5)$ and $(4, -2)$, and
   - the line connecting the points $(x, y) = (-2, 3)$ and $(5, 3)$.

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 $(5, 3)$.

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

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

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

$5 = 3 + b$

$b = 2$

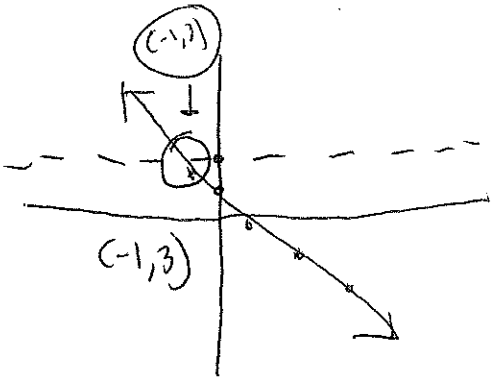
$\frac{3-3}{5+2} = \frac{0}{7} = 0$

$3 = 0(-2) + b$

$3 = b$

$y = -x + 2$

$y = 3$



$3 = -x + 2$

$-2 \quad -2$

$1 = -x$

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

$x = -1$

$(-1, 3)$

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: $y = mx + b \rightarrow y = 3$ ✓

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

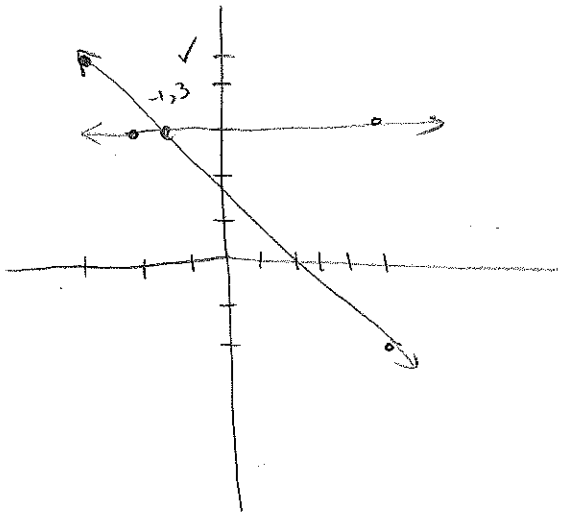
$3 = 5(0) + b$

$b = 3$

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

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

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

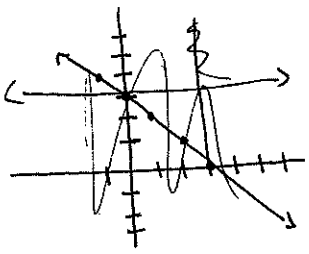
$y + 2 = -1x + 4$ $\quad$ $y = 3$

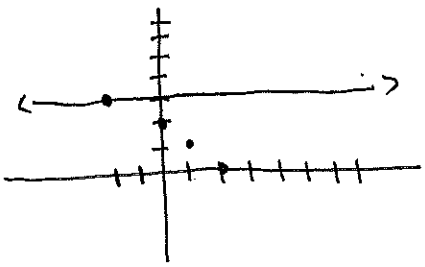
$y = -1x + 2$

$3 = -1x + 2$

$1 = -1x$

$x = -1$





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

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

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

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

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

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

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