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 $(5, 3)$.

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

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

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

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

$2 = b$

$-x + 2 = 3$

$-x = 1$

$x = -1$

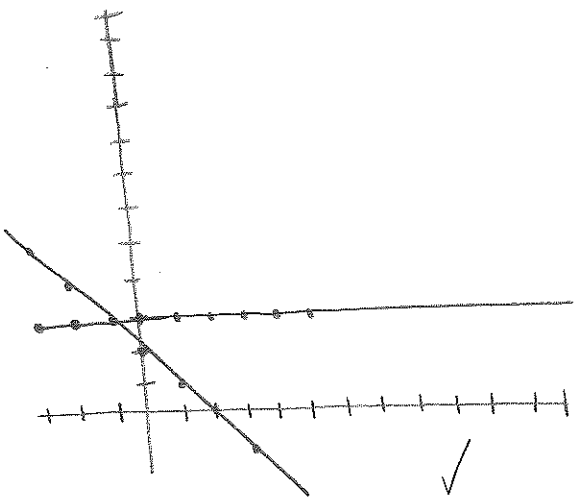
$\frac{3-3}{5-(-2)} = \frac{0}{7} = 0$

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

$b = 3$

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

$y = 3$



✓

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 $(5, 3)$.

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

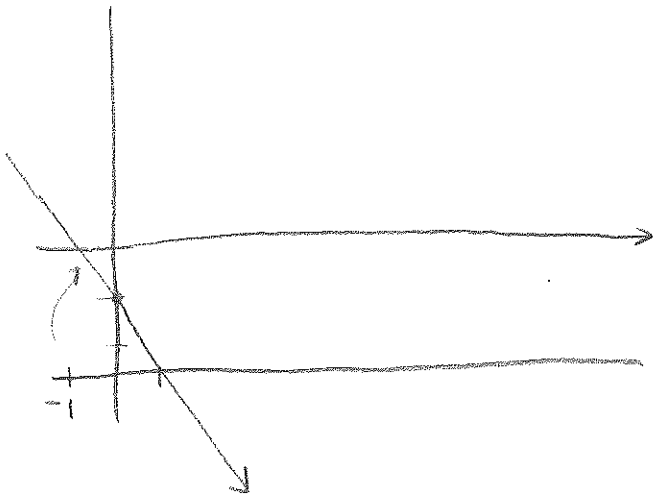
Line 1: $y = mx + b$

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

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

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

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



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

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

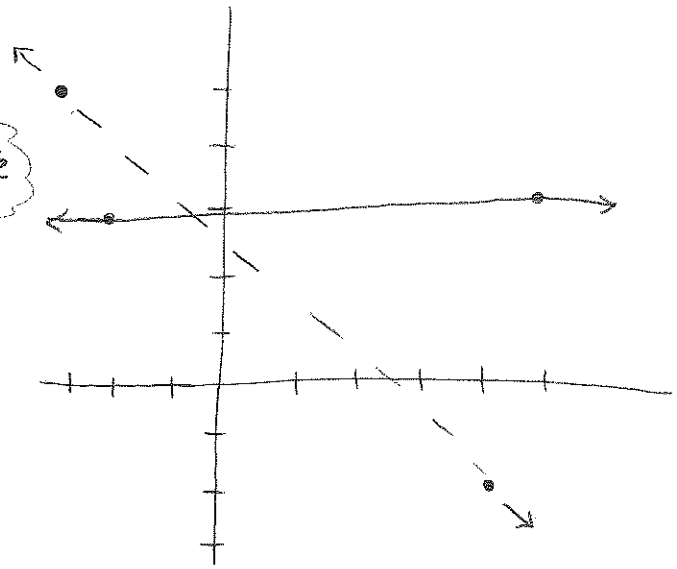
$5 = -\frac{3}{7}(-3) + b$

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

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

$b = 26/7$

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



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

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

$y = 3$

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

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

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

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

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 $(5, 3)$.

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

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

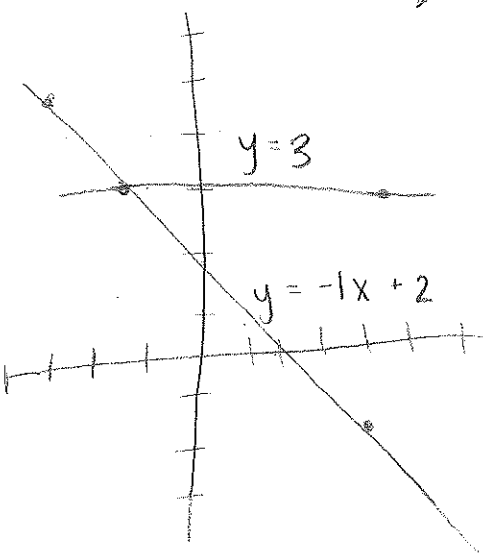
$\frac{3-3}{5-2} = \frac{0}{7} = 0$ because its a straight line

? 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 $(5, 3)$.

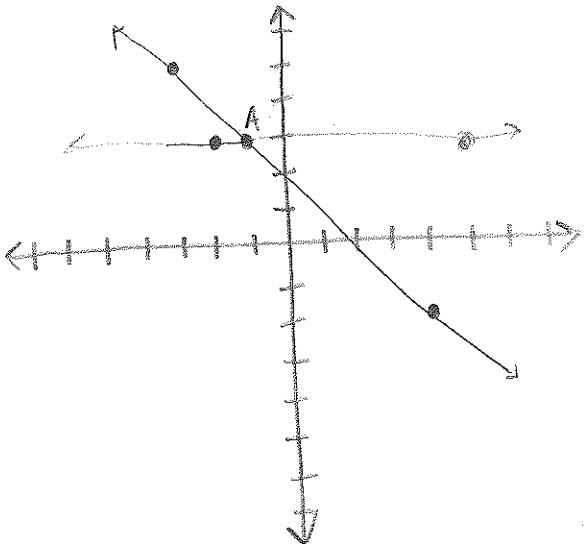
$(x, y) =$ $(-1, 3)$

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

- $y - y_0 = m(x - x_0)$
  $3 - 3 = m(-2 - 5)$
  $0 = m$ (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 $(5, 3)$.

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

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

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

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

$y = -1x + b$

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

$-2 = -4 + b$

$+4 \quad +4$

$b = 2$

$y = -x + 2$

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

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

$y = 0x + b$

$3 = 0(5) + b$

$b = 3$

$y = 3$

$3 = -x + 2$

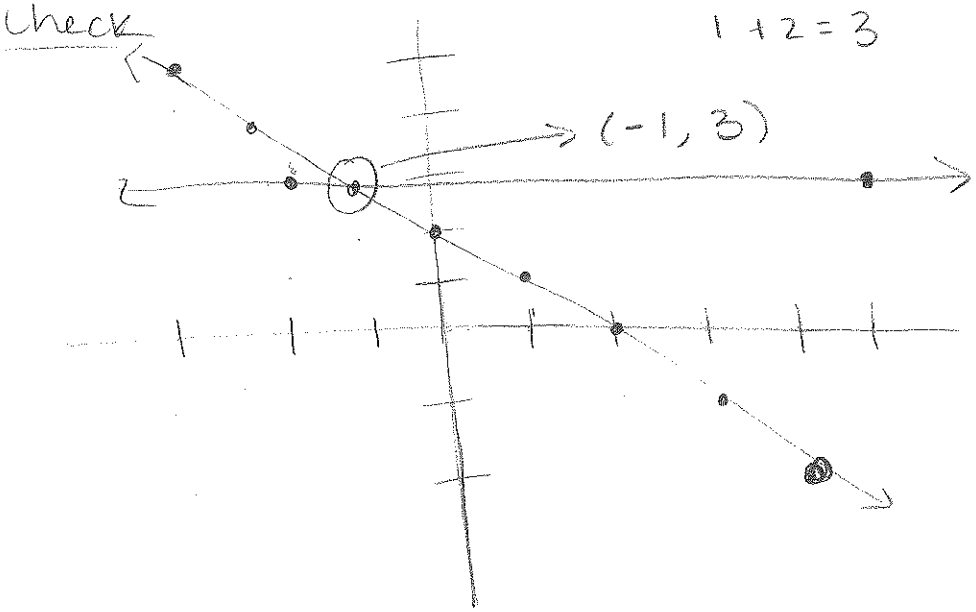
$-2 \quad -2$

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

$-(-1) + 2 = y$

$1 + 2 = 3$

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)

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

$y - 5 = -x - 3$

$y = -x - 3 + 5$

$y = -x + 2$

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

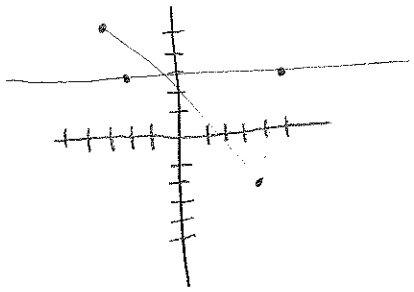
$y - 3 = 0$

$y = 3$

$3 = -x + 2$

$1 = -x$

$-1 = x$



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 $(5, 3)$.

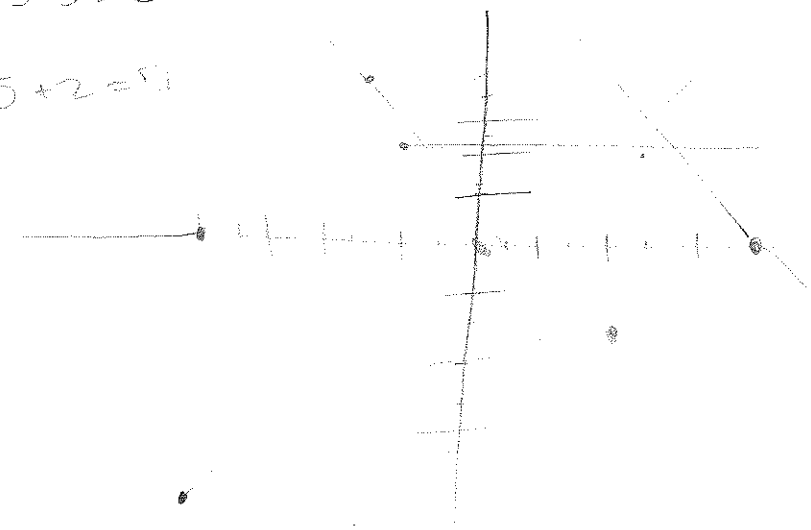
$y = -2 - 5 = -7$

$x = 4 + 3 = 7$

$y = 3 - 3 = 0$

$x = 5 + 2 = 7$

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



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

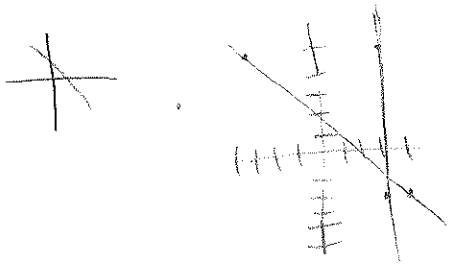
$y = -x + b$

$5 = -(-3) + b$

$5 = 3 + b$

$b = 2$

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

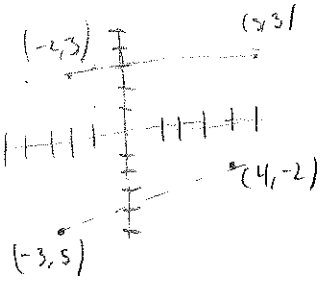
Put your answer in the box provided.

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 $(5, 3)$.

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

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

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

$y = mx+b$

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

$-2 = -4+b$

$+4 \quad +4$

$2 = b$

$y = -x+2$

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

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

$y = mx+b$

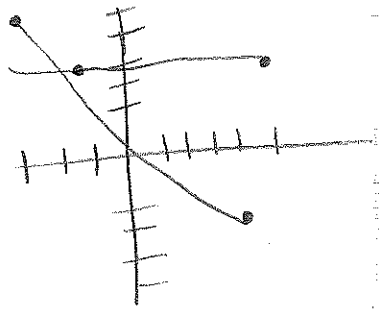
$3 = 0x+b$

$3 = b$

$y = 3$

$y = -(-1)+2$

$y = 3$



$3 = -x+2$

$-2 \quad -2$

$1 = -x$

$x = -1$

$3 = -1+b$

$+1 \quad +1$

$b = 4$

$-x+2 = 3$

$-x = 1$

$x = -1$

$(-1,3)$

$y = mx+b$

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 $(5, 3)$.

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

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

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

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

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

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

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

$y = -x+2$

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

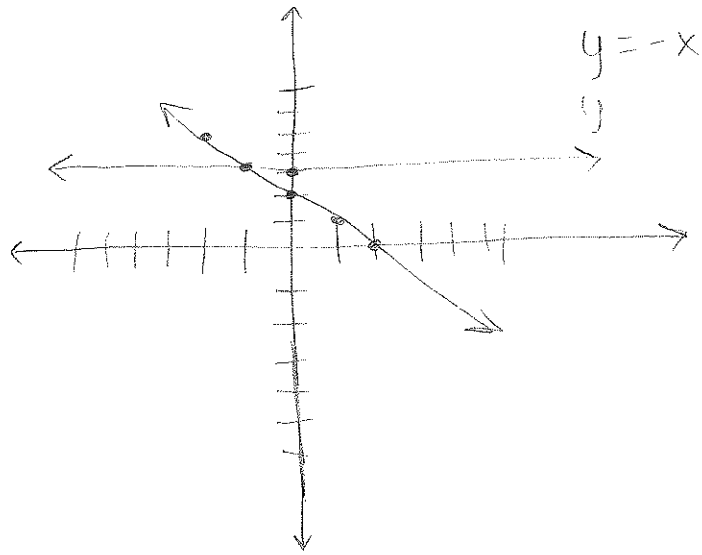
$\frac{3-3}{5-(-2)} = \frac{0}{7} = 0$

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

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

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

$y = 3$



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

$7k = -7$

$k = -1$

$-4 + b = -2$

$b = 2$

$y_1 = -x + 2$

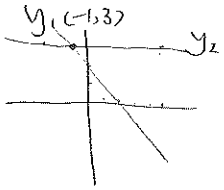
② $\begin{cases} 3 = -2k + b \\ 3 = 5k + b \end{cases}$

$3k = 0$

$k = 0$

$b = 3$

$y_2 = 3$



$3 = -x + 2$

$-x = 1$

$x = -1$

$(-1, 3)$

Math 34A Winter 2020
Quiz #2c

No calculators

Angel Solares
PRINT NAME

PERM NUMBER
9821265

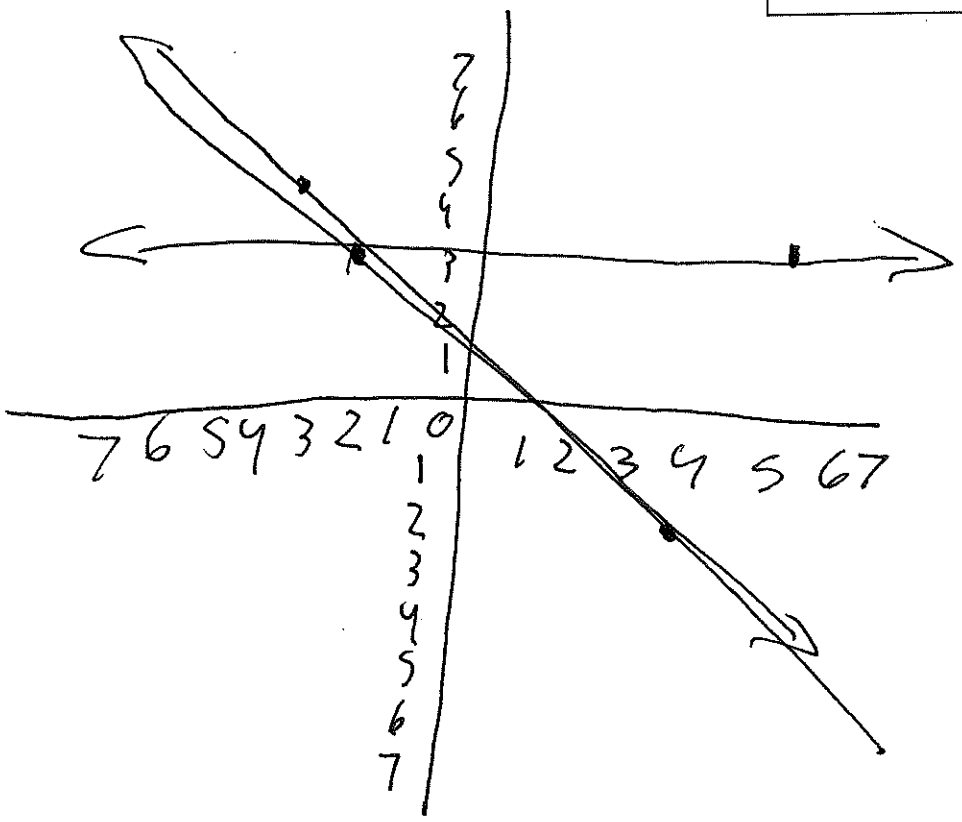
Put your answer in the box provided.

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

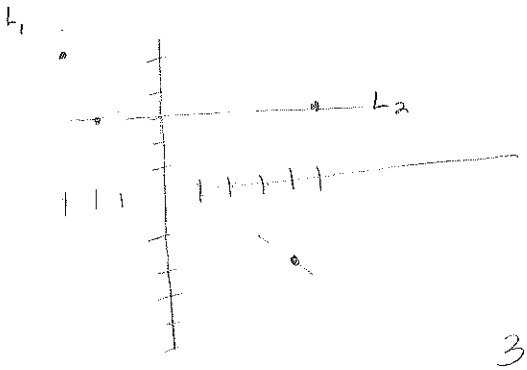
Put your answer in the box provided. **TA:** ☐ Garo ☐ Trevor ☐ Sam **Time:** ☐ 8am ☐ 5pm ☐ 6pm ☐ 7pm

---

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 $m = -1$ $\quad L_2$ $m = 0$

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

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

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

$-x + 4 - 2 = +3$

$-x = 1$

$x = -1$

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

$y = 3$

$(-1, 3)$

Math 34A Winter 2020
Quiz #2c

No calculators

Luisa Sanchez
PRINT NAME

PERM NUMBER
8252496

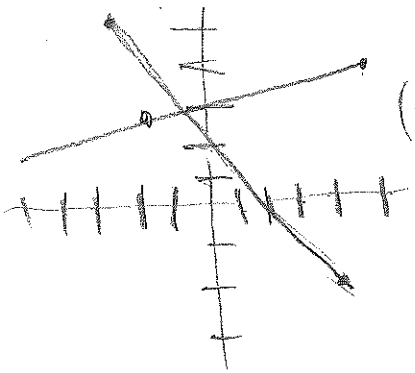
Put your answer in the box provided.

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

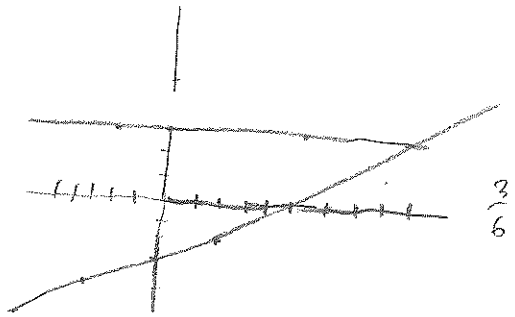
Put your answer in the box provided. **TA:** ☐ Garo ☒ Trevor ☐ Sam **Time:** ☐ 8am ☒ 6pm ☐ 5pm ☐ 7pm

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 $(5, 3)$.

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

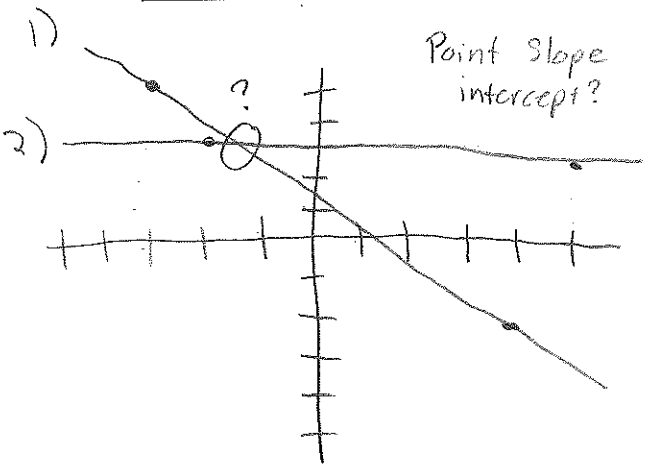
$y - y_1 = -1(x - x_1)$

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

$y - 5 = -x - 3$

$y = -x + 2$

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



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

Math 34A Winter 2020
Quiz #2c

No calculators

PRINT NAME Luis Quintero

PERM NUMBER
9343013

Put your answer in the box provided.

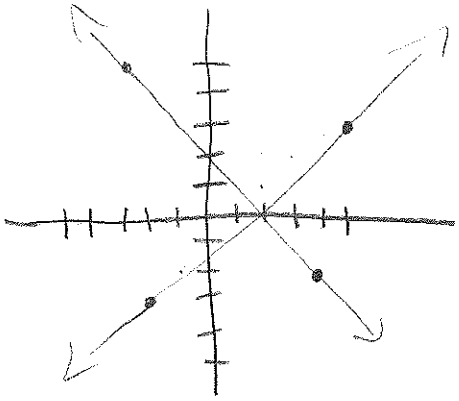
TA: ☐ Garo ☒ Trevor ☐ Sam

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

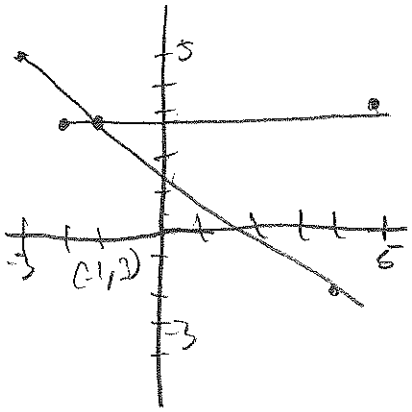
PERM NUMBER
961381-1

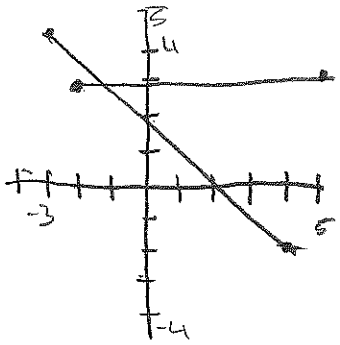
Put your answer in the box provided.

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

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

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

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

$+4 \quad +4$

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

$x - (-3) + 4$

$y = x - 1$

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

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

$+3 \quad +3$

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

$y = x + 3$

$x + 3 = x - 1$

$-1 \quad -1$

$x = 4$