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 $(5, 3)$.

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

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

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

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

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

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

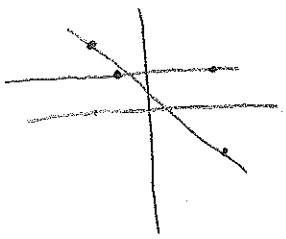
$x = -y + 2$

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

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

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

$y = 3$



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 $(5, 3)$.

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

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

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

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

$y - 5 = -x - 3$

$y = -x + 2$

$3 = -x + 2$

$-1 = -x$

$1 = x$

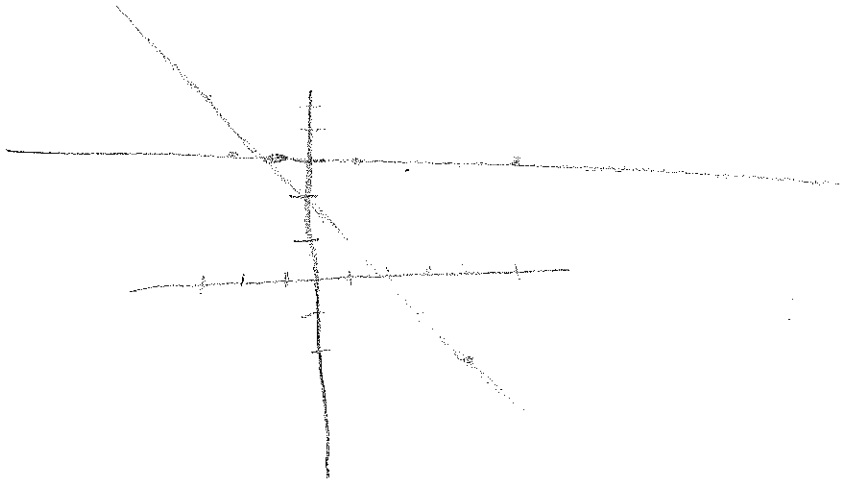
$3 = -x + 2$
$-2 \quad -2$
$1 = -x$
$x = -1$

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

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

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

$y = 3$



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

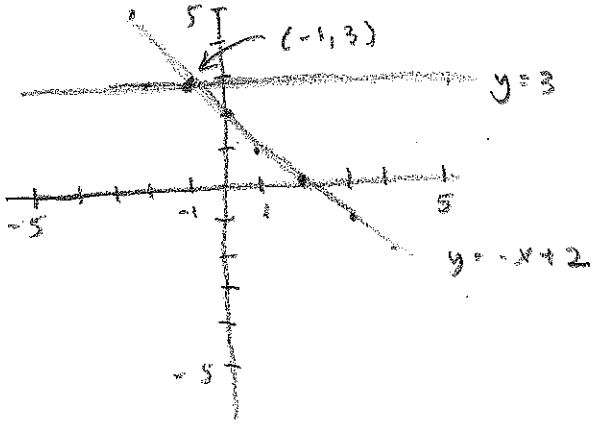
$3 = -x + 2$

$1 = -x$

$x = -1$

$y = 1 + 2$

$y = 3$ ✓



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 $(5, 3)$.

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

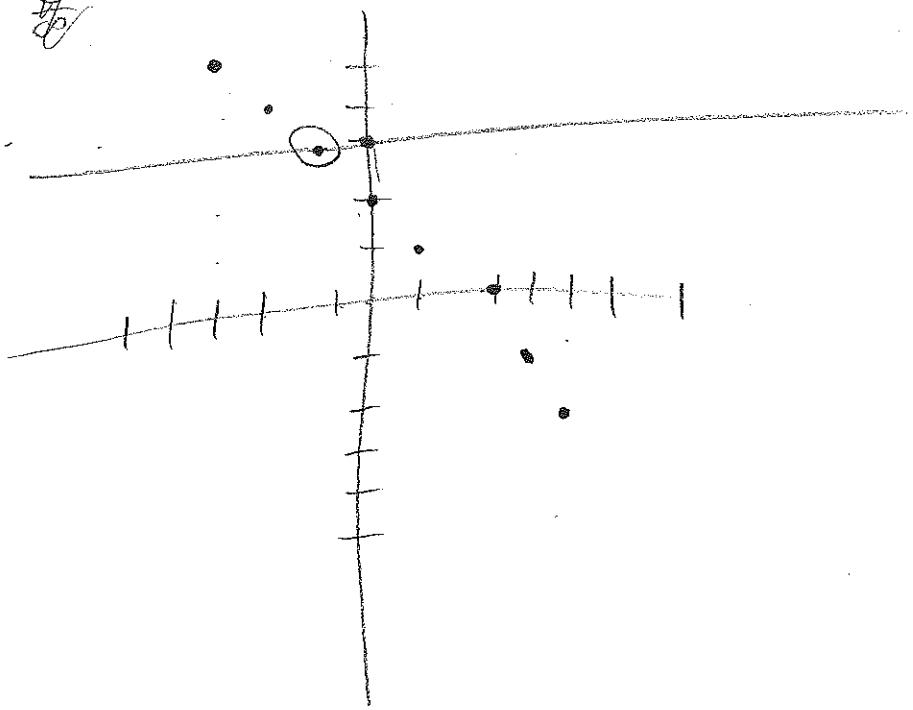
Slope line 1 $\frac{\text{rise}}{\text{run}}$ $\frac{7}{7} \Rightarrow 1$

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

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

$y = x + 2$

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

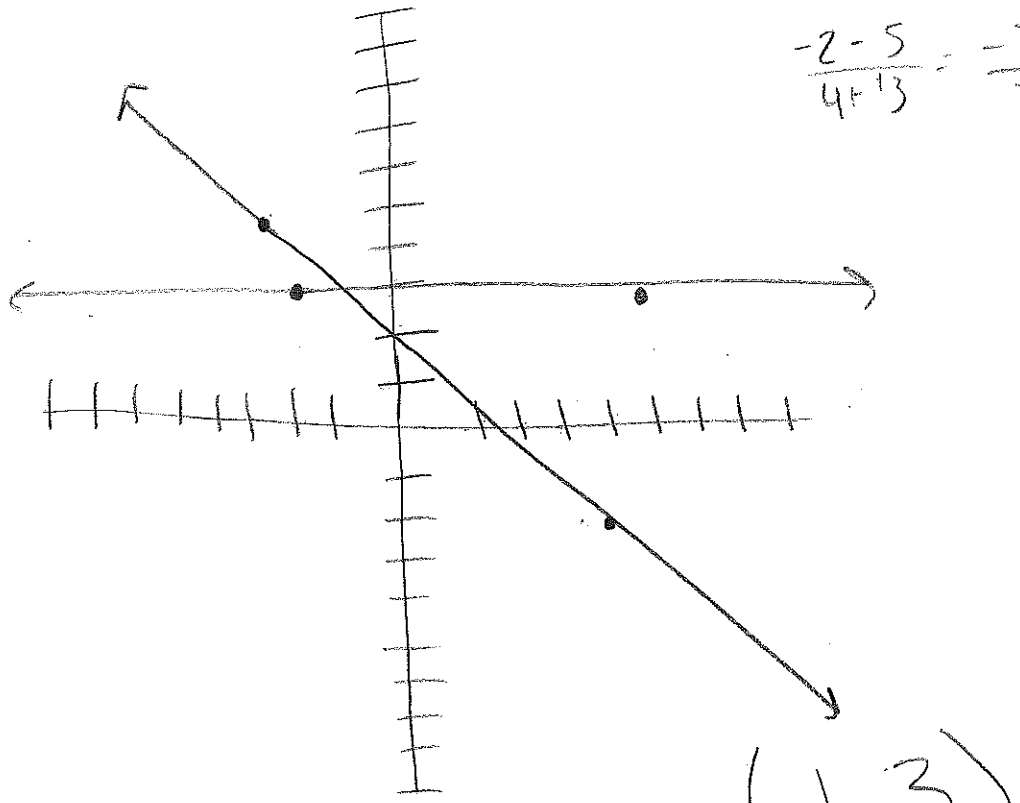
1. Find the (x, y) coordinates of the point of intersection between:

   - 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 $(5, 3)$.

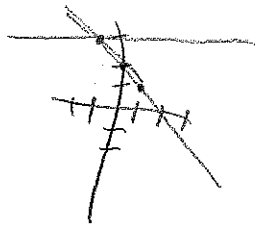
$\frac{5+2}{-3-4} = \frac{7}{-7} = -1$

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

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

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

$y = -x + 2$



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

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

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

$y = 3$

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

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

$-1 = x$

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 $(5, 3)$.

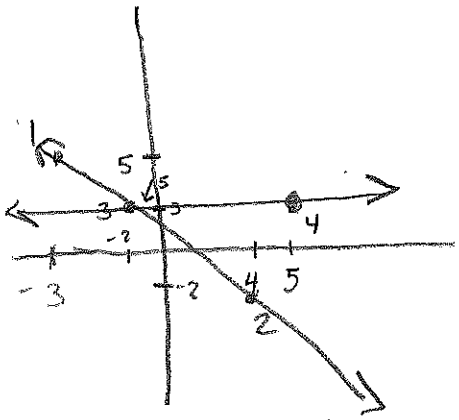
$(x, y) =$ $(-5, 3)$

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

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

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

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

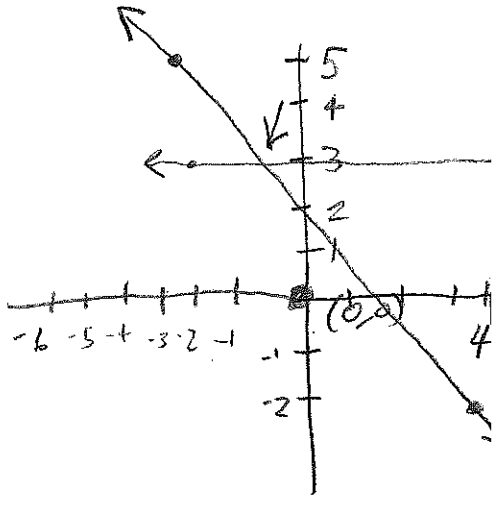


(x_1, y_1)
$(-2, 3)$
$(5, 3)$
(x_2, y_2)

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

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

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



Math 34A Winter 2020
Quiz #2c

No calculators

Tammy Collins
PRINT NAME

PERM NUMBER
9722695

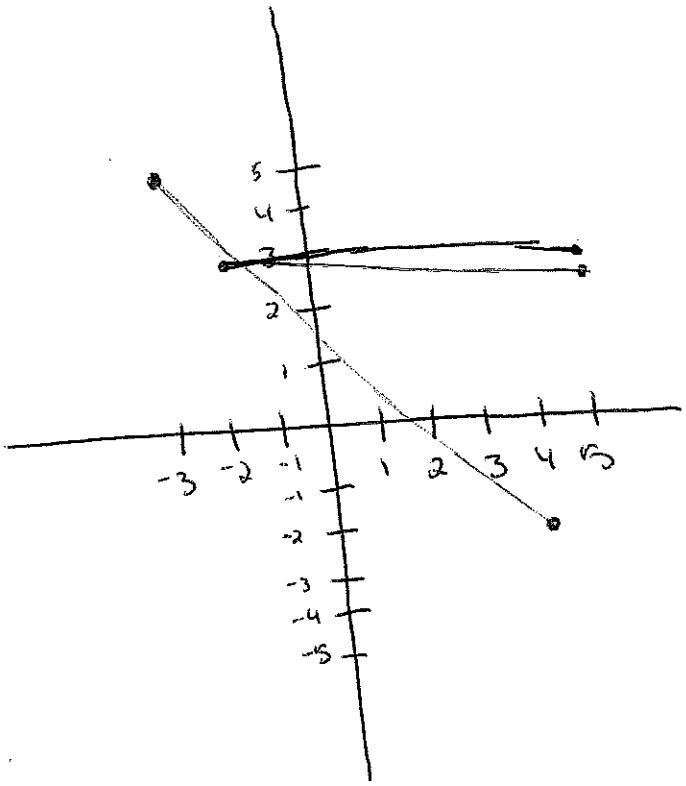
Put your answer in the box provided.

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
8761222

Put your answer in the box provided.

TA: ☐ Garo ☐ Trevor ☑ Sam

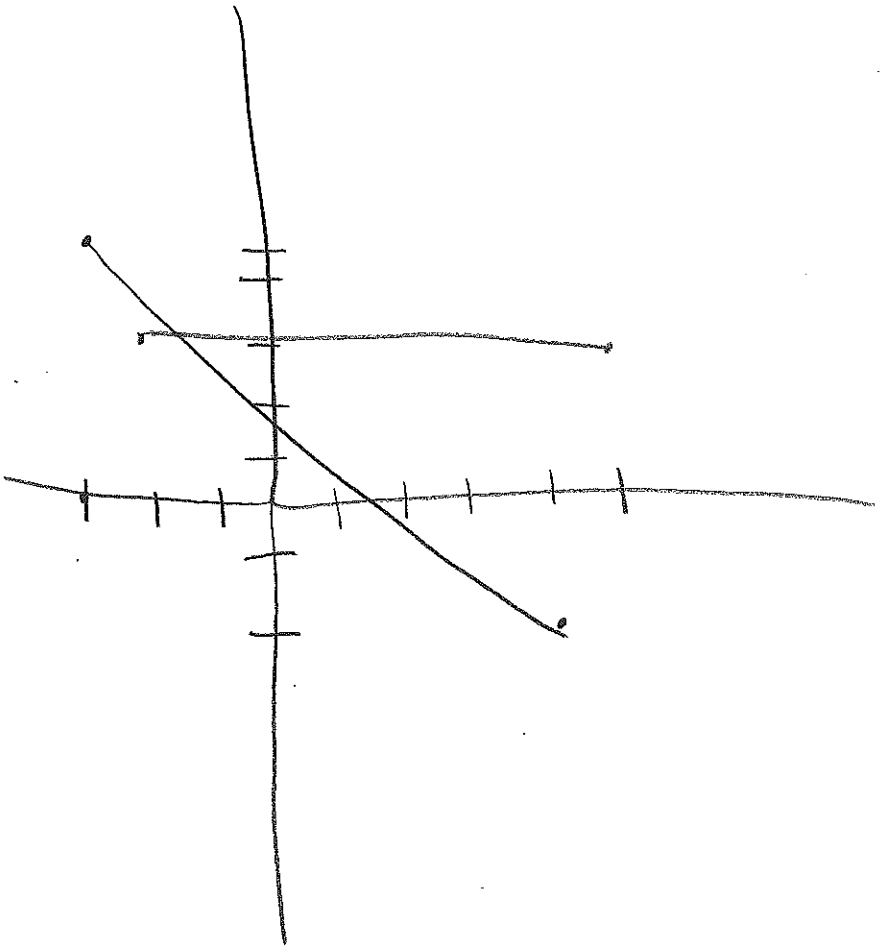
Time: ☐ 8am ☐ 6pm ☑ 5pm ☐ 7pm

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 $(5, 3)$.

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

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

$y = 1x + b$

$5 = 1(-3) + b$

$5 = -3 + b$

$+3 \quad +3$

$b = 8$

$y = 1x + 8$

$x = 3$

$y = 0x + 3$

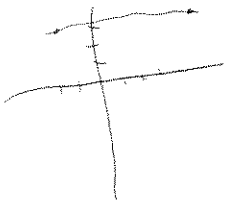
$y = 3$

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

$3 = 1x + 8$

$-8 \quad -8$

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



$y = 1(-5) + 8$

$y = -5 + 8$

$y = 3$

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 $(5, 3)$.

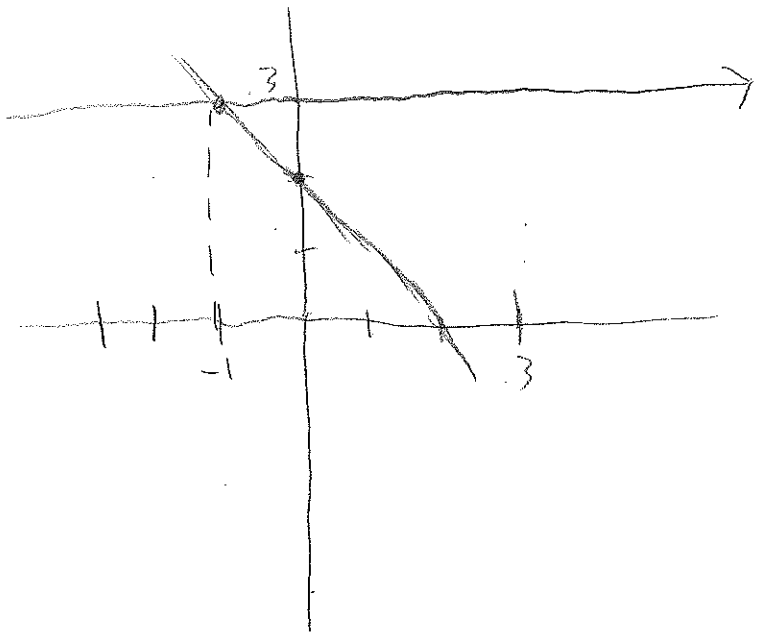
$\frac{-2-5}{4-(-3)} = \frac{-7}{7} = -1$

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

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

$y = -x - 2 + 4$

$y = -1x + 2$



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

$y = 3$

$3 = -x + 2$

$-2 \quad -2$

$1 = -x$

$-1 = x$

Math 34A Winter 2020
Quiz #2c

No calculators

PRINT NAME: Triston Fosgate

PERM NUMBER: 9731416

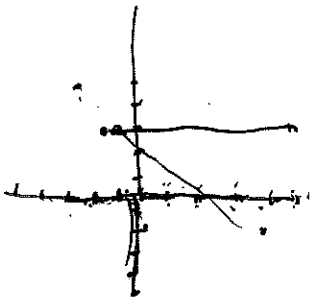
Put your answer in the box provided.

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

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

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

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

$y = -x+4-2$

$y = -x+2$

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

$y-3 = 0$

$x = 3$

$3 = -x+2$

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

$y-5 = -x-3$

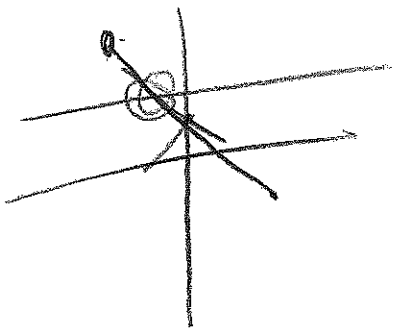
$y = -x+2$

$3 = -x+2$

$1 = -x$

-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 $(5, 3)$.

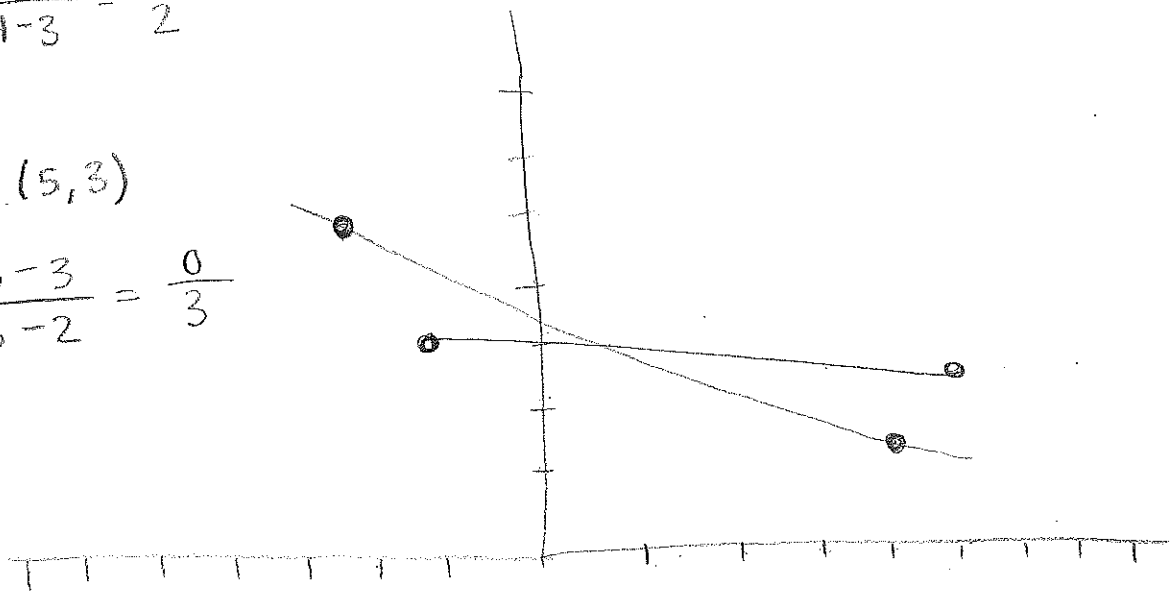
x_1, y_1 x_2, y_2
$(-3, 5) * (4, -2)$

$(x, y) =$ 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

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

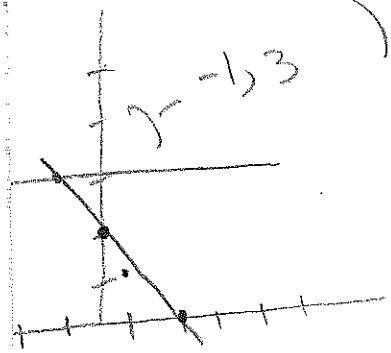
$y-3 = 0(x-5)$

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

$y = 3$

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

$x = -1$



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

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

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

$y = -x - 3 + 5$

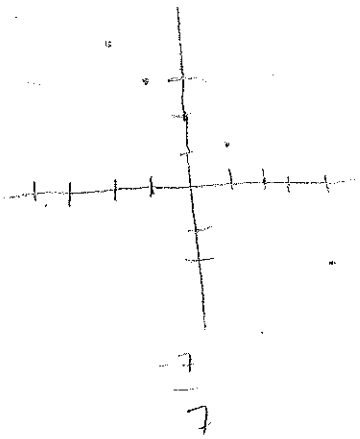
$y = -x + 2$ ✓

$-x + 2 = 3$

$-2 \quad -2$

$-x = 1$

$x = -1$



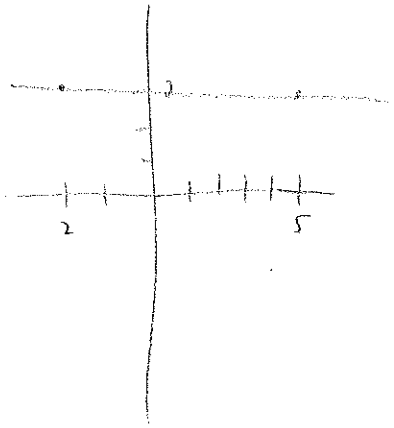
B. Slope $= \frac{y_2 - y_1}{x_2 - x_1} = \frac{3-3}{5+2} = \frac{0}{7} = 0$

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

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

$y = 0x + 0 + 3$

$y = 3$ ✓



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 $(5, 3)$.

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

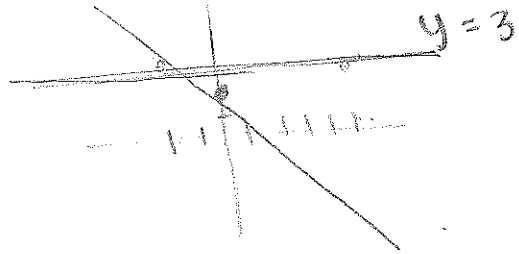
$\frac{7}{-7} = -1$

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

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

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

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 $(5, 3)$.

$(x, y) =$