Quiz 3

Name: Nicholas Prasad **Perm Number:** 56355750

1) Write the following fraction as a mixed number (that is, a whole number and a simplified fraction less than 1).

$$\frac{766}{12}$$

$63\frac{10}{12}$

2) Substitute $x = kt + p$ into

$$x^2 - 2px + 7$$

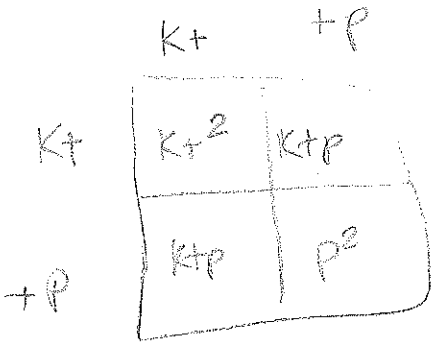
Simplify the result as much as possible.

When you're done, write the result of this simplification here → $kt^2 - p^2 + 7$

$(kt+p)^2 - 2p(kt+p) + 7$

$kt^2 + 2ktp + p^2 - 2ktp - 2p^2 + 7$

$kt^2 - p^2 + 7$



3) Find the equation of a line with slope $m = 3$ and y-intercept $b = -5$.

$y =$ $3x - 5$

4) Find the equation of a line with slope $m = 3$ passing through the point $(1, 6)$.

$6 = 3(1) + b$

$-3 \quad -3$

$3 = b$

$y =$ $3x + 3$

5) Find the point where the lines with equations $y = 5x - 10$ and $y = -3x + 6$ cross.

$5x - 10 = -3x + 6$

$-6 \quad -6$

$-16 = -8x$

$2 = x$

$y = 5(2) - 10$

$y = 0$

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

$0 = 5(2) - 10$

$0 = 0$ ✓

$0 = -3(2) + 6$

$0 = 0$ ✓

Quiz 3

Name: Harper Giordano **Perm Number:** 58841150

1) Write the following fraction as a mixed number (that is, a whole number and a simplified fraction less than 1).

$$\frac{766}{12}$$

$$12\overline{)766} \quad 063 \quad 72 \quad 46 \quad 36 \quad 10$$

$\rightarrow 63\frac{10}{12} = 63\frac{5}{6} \rightarrow$ **$63\frac{5}{6}$**

12 × 6 = 72

63 × 12 = 756

check: 63 × 12 = 756; 756 + 10 = 766 ✓

2) Substitute $x = kt + p$ into

$$x^2 - 2px + 7$$

Simplify the result as much as possible.

When you're done, write the result of this simplification here → **$(kt)^2 - p^2 + 7$**

$$x^2 - 2px + 7$$

$$(kt+p)^2 - 2p(kt+p) + 7$$

$$(kt)^2 + \cancel{kt(p)} + \cancel{kt(p)} + p^2 - \cancel{2pkt)} - 2p^2 + 7$$

$$\boxed{(kt)^2 - p^2 + 7}$$

$(kt+p)(kt+p)$

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

$y = mx + b$

3) Find the equation of a line with slope $m = 3$ and y-intercept $b = -5$.

$y = mx + b$

$y = 3x - 5$

$y =$ $3x - 5$

4) Find the equation of a line with slope $m = 3$ passing through the point $(1, 6)$. (x, y)

$y = mx + b$

$6 = 3(1) + b$

$6 = 3 + b$

$b = 3$

$y = 3x + 3$

$y =$ $3x + 3$

Check:

$y = 3x + 3$

$6 = 3(1) + 3 = 6$ ✓

5) Find the point where the lines with equations $y = 5x - 10$ and $y = -3x + 6$ cross.

$y = 5x - 10$

$y = -3x + 6$

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

$5x - 10 = -3x + 6$

$8x = 16$

$x = 2$

$\rightarrow$ $y = -3x + 6$

$y = -3(2) + 6$

$y = -6 + 6$

$y = 0$

Check ✓

$y = 5(2) - 10$

$y = 10 - 10 = 0$ ✓

Quiz 3

Name: Christopher Boling **Perm Number:** 6085534

1) Write the following fraction as a mixed number (that is, a whole number and a simplified fraction less than 1).

$\frac{766}{12}$

$63\frac{5}{6}$

2) Substitute $x = kt + p$ into

$$x^2 - 2px + 7$$

Simplify the result as much as possible.

When you're done, write the result of this simplification here ⟶ $kt^2 - p^2 + 7$

$(kt+p)^2 - 2p(kt+p) + 7$

$kt^2 + 2ktp + p^2 - 2pkt - 2p^2 + 7$

$kt^2 + p^2 - 2p^2 + 7$

$kt^2 - p^2 + 7$

3) Find the equation of a line with slope $m = 3$ and y-intercept $b = -5$.

$y = 3x - 5$

$y =$ $3x - 5$

4) Find the equation of a line with slope $m = 3$ passing through the point $(1, 6)$.

$y = 3x + b$

$6 = 3(1) + b$

$6 = 3 + b$

$-3 \quad -3$

$3 = b$

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

$y - 6 = 3x - 3$

$+6 \quad +6$

$y = 3x + 3$

$y =$ $3x + 3$

5) Find the point where the lines with equations $y = 5x - 10$ and $y = -3x + 6$ cross.

$y = 5x - 10$

$y = -3x + 6$

$y = 5(2) - 10$

$y = 0$

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

$-3x + 6 = 5x - 10$

$+3x \quad +3x$

$6 = 8x - 10$

$+10 \quad +10$

$16 = 8x$

$x = 2$

Quiz 3

Name: CONNELL TRAINOR **Perm Number:** 6872899

1) Write the following fraction as a mixed number (that is, a whole number and a simplified fraction less than 1).

$$\frac{766}{12}$$

63 5/6

12 × 60 = 720, 732, 744, 756

756 + 10/12

63 10/12

10/12 = 5/6

12 | 63 | 36 | 720 | 756

12 | 15 | 12 | 30 | 6

2) Substitute $x = kt + p$ into

$$x^2 - 2px + 7$$

Simplify the result as much as possible.

When you're done, write the result of this simplification here → $k^2t^2 - p^2 + 7$

$(kt+p)^2 - 2p(kt+p) + 7$

$(kt+p)(kt+p) - 2p(kt+p) + 7$

$(kt+p)(kt+p) - 2pkt - 2p^2 + 7$

$k^2t^2 + 2pkt + p^2 - 2pkt - 2p^2 + 7$

$k^2t^2 - p^2 + 7$

$k^2t^2 + 2kpt + p^2 - 2pkt - 2p^2 + 7$

3) Find the equation of a line with slope $m = 3$ and y-intercept $b = -5$.

$y = mx + c$

$y = 3x - 5$

$y =$ $3x - 5$

4) Find the equation of a line with slope $m = 3$ passing through the point $(1, 6)$.

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

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

$y = 3x - 3 + 6$

$y =$ $3x + 3$

5) Find the point where the lines with equations $y = 5x - 10$ and $y = -3x + 6$ cross.

$5x - 10 = -3x + 6$

$8x = 16$

$x = 2$

$y = 10 - 16$

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

Quiz 3

Name: Daniela Ramirez **Perm Number:** 6163299

1) Write the following fraction as a mixed number (that is, a whole number and a simplified fraction less than 1).

$$\frac{766}{12}$$

$12 \overline{)766}$ 63, -72, 46, -36, 10

$\frac{10}{12}$

$10 \div 2 = 5$, $12 \div 2 = 6$, $\frac{5}{6}$

$63\frac{10}{12} = 63\frac{5}{6}$

$63\frac{5}{6}$

2) Substitute $x = kt + p$ into

$$x^2 - 2px + 7$$

Simplify the result as much as possible.

When you're done, write the result of this simplification here ⟶ $2kt^2 - 2pt^2 - 2pt + 7$

$(kt+p)^2 - 2p(kt+p)^2 + 7$

$(k^2t^2 + p^2 + 2pkt + p^2) + 7$

$2k^2t^2 + 2pt^2 - 2pt + 7$

3) Find the equation of a line with slope $m = 3$ and y-intercept $b = -5$.

$y = mx + b$

$y = 3x - 5$

$y =$ $3x-5$

4) Find the equation of a line with slope $m = 3$ passing through the point $(1, 6)$.

$y = mx + b$

$y = 3x + b$

$\frac{6}{1} = 6$

$y = 3x + 6$

$y =$ $3x+6$

5) Find the point where the lines with equations $y = 5x - 10$ and $y = -3x + 6$ cross.

$5x - 10 = -3x + 6$

$+3x \quad +3x$

$8x - 10 = +6$

$+10 \quad +10$

$\frac{8x}{8} = \frac{16}{8}$

$x = 2$

$y = 5(2) - 10$

$y = 10 - 10$

$y = 0$

$y = -3(2) + 6$

$y = -6 + 6$

$y = 0$

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

3) Find the equation of a line with slope $m = 3$ and y-intercept $b = -5$.

$y = mx + b$

$y = 3x - 5$

$y = 3x + (-5)$

$y =$ $3x - 5$

4) Find the equation of a line with slope $m = 3$ passing through the point $(1, 6)$.

$y = mx + b$

$6 = 3(1) + b$

$6 = 3 + b$

$-6 \quad -6$

$y = 3x + 6$

$y =$ $3x + 3$

5) Find the point where the lines with equations $y = 5x - 10$ and $y = -3x + 6$ cross.

$y = 5x - 10$

$y = -3x + 6$

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

Quiz 3

Name: Desiree Espinoza **Perm Number:** 4736211

1) Write the following fraction as a mixed number (that is, a whole number and a simplified fraction less than 1).

$$\frac{766}{12}$$

$\frac{766}{12}$

$63\frac{10}{12}$

$63\frac{5}{6}$

2) Substitute $x = kt + p$ into

$$x^2 - 2px + 7$$

Simplify the result as much as possible.

When you're done, write the result of this simplification here ⟶ $Kt + 5p^2$

$(kt+p)^2 - 2p(kt+p) + 7$

$kt + p^2 + 2p$

$Kt + 2p^2$

-7

$Kt + 5p^2$

3) Find the equation of a line with slope $m = 3$ and y-intercept $b = -5$.

$y = 3x - 5$

$y =$ $3x - 5$

4) Find the equation of a line with slope $m = 3$ passing through the point $(1, 6)$.

$6 = 3(1) + b$

$6 = 3 + 3$

$y = 3x + 3$

$y =$ $3x + 3$

$y = 3(1) + 3$

$= 6$

5) Find the point where the lines with equations $y = 5x - 10$ and $y = -3x + 6$ cross.

$y = y$

$\rightarrow 5x - 10 = -3x + 6$

$5x + 3x = 6 + 10$

$8x = 16$

$x = \frac{16}{8} = 2$

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

$y = 5(2) - 10 = 10 - 10 = 0$

$y = -3(2) + 6 = -6 + 6 = 0$

Quiz 3

Name: Zoe Albornoz **Perm Number:** 6491796

1) Write the following fraction as a mixed number (that is, a whole number and a simplified fraction less than 1).

$$\frac{766}{12}$$

$63\frac{5}{6}$

2) Substitute $x = kt + p$ into

$$x^2 - 2px + 7$$

Simplify the result as much as possible.

When you're done, write the result of this simplification here → $k^2t^2 - p^2 + 7$

$(kt+p)^2 - 2p(kt+p) + 7$

$k^2t^2 + 2ktp + p^2 - 2ktp - 2p^2 + 7$

$k^2t^2 - p^2 + 7$

3) Find the equation of a line with slope $m = 3$ and y-intercept $b = -5$.

$3x - 5 = y$

(0, -5)

$y =$ $3x-5$

4) Find the equation of a line with slope $m = 3$ passing through the point $(1, 6)$.

$3(1) + x = 6$

$x = 3$ $3x + 3 =$

$y =$ $3x + 3$

5) Find the point where the lines with equations $y = 5x - 10$ and $y = -3x + 6$ cross.

$5x - 10 = -3x + 6$

$+10 \quad +10$

$5x = -3x + 16$

$+3x \quad +3x$

$8x = 16$

$x = 2$

$5(2) - 10 = 0$

$-3(2) + 6 = 0$

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

Quiz 3

Name: JO Haddad **Perm Number:** 4700282

1) Write the following fraction as a mixed number (that is, a whole number and a simplified fraction less than 1).

$$\frac{766}{12}$$

$63\frac{5}{6}$

2) Substitute $x = kt + p$ into

$$x^2 - 2px + 7$$

Simplify the result as much as possible.

When you're done, write the result of this simplification here →

$k^2 + 2kt + t^2 - p^2 + 7$

3) Find the equation of a line with slope $m = 3$ and y-intercept $b = -5$.

$y = mx - 5$

$+5 \quad +5$

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

$\frac{y+5}{3} = \frac{m3}{3}$

$m = \frac{y+5}{3}$

$+5 \quad y = mx - 5 \quad +5$

$\frac{y+5}{m} = x$

4) Find the equation of a line with slope $m = 3$ passing through the point $(1, 6)$.

$x \quad y \quad 6 = 3 + b$

$-3 \quad -3$

$3 = b$

2 equations

$\frac{6}{1} = \frac{3(1)+b}{1}$ ✓

$y = \boxed{3(x) + 3}$

$6 = m + b \quad 6 = 3 + 3$

$-m \quad -m$

$6 - m = b$

$6 = 1 + c$

$6 = m(1) + (6 - m) \quad 6 = 6 + m^2$

$6 = m(1) \quad -6$

$\sqrt{0} = \sqrt{m^2}$

5) Find the point where the lines with equations $y = 5x - 10$ and $y = -3x + 6$ cross.

$y = mx + b$

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

-3

$5(1) \quad 5 - 10$

$-5 =$

$(x, y) = \boxed{(2, 0)}$

$y = 5x - 10$

$+ \quad +$

$\frac{y+10}{5} = x$

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

$\frac{5}{1}$

$y = \frac{5x+50}{25} - 10$

$y = -\frac{3}{-3}\left(\frac{x-6}{-3}\right) + 6$

$y = -3x + 6$

$-6 \quad -6$

$y = \frac{3x+18}{3} + 6$

$3x + 24$

-24

$\frac{y-6}{-3} = x \quad \frac{y-24}{3}$

Quiz 3

Name: Maya Cooks **Perm Number:** 6398730

1

1) Write the following fraction as a mixed number (that is, a whole number and a simplified fraction less than 1).

$\frac{766}{12}$ ÷2 ÷2 $\frac{383}{6}$ +300

383

3 & 3

383

300

+

166

383

÷3

2) Substitute $x = kt + p$ into

$$x^2 - 2px + 7$$

Simplify the result as much as possible.

When you're done, write the result of this simplification here → $kt^2 - 2kt + 7$

$(kt+p)^2 - 2(kt+p) + 7$

$(kt+p)(kt+p) - 2kt + 2p + 7$

$kt^2 + 4p - 2kt + 7$

$kt^2 + p^2 - 2kt - 2p + 7$

2p

3) Find the equation of a line with slope $m = 3$ and y-intercept $b = -5$.

$y =$ $3x - 5$

4) Find the equation of a line with slope $m = 3$ passing through the point $(1, 6)$.

$y =$ $3x + 3$

5) Find the point where the lines with equations $y = 5x - 10$ and $y = -3x + 6$ cross.

$5x - 10 = -3x + 6$

$8x = 16$

$x = 2$

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

Quiz 3

Name: Yang Li **Perm Number:** 3996188

1) Write the following fraction as a mixed number (that is, a whole number and a simplified fraction less than 1).

$$\frac{766}{12}$$

46
60 720

63
12
126
63
756

$63\frac{5}{6}$

2) Substitute $x = kt + p$ into

$$x^2 - 2px + 7$$

Simplify the result as much as possible.

When you're done, write the result of this simplification here ⟶ $(kt)^2 - p^2 + 7$

$(kt+p)^2 = (kt)^2 + 2ktp + p^2$

$2p(kt+p)$

$(kt)^2 + 2ktp + p^2 - 2pkt - 2p^2$

3) Find the equation of a line with slope $m = 3$ and y-intercept $b = -5$.

$y = mx + b$

$y = 3x + -5$

$y =$ $\boxed{3x - 5}$

4) Find the equation of a line with slope $m = 3$ passing through the point $(1, 6)$.

$y = mx + b$

$6 = 3(1) + b$

$6 = 3 + b$

$3 = b$

$y = 3x + 3$

$y =$ $\boxed{3x + 3}$

5) Find the point where the lines with equations $y = 5x - 10$ and $y = -3x + 6$ cross.

$5x - 10 = -3x + 6$

$5x = -3x + 6 + 10$

$5x + 3x = 16$

$\frac{8x}{8} = \frac{16}{8}$

$x = 2$

$y = 5(2) - 10$

$10 - 10 = 0$

$y = 0$

$y = -3(2) + 6$

$y = -6 + 6$

$y = 0$ ✓

$(x, y) =$ $\boxed{(2, 0)}$

Quiz 3

Name: Aidan Afrasiabi **Perm Number:** 5229869

1) Write the following fraction as a mixed number (that is, a whole number and a simplified fraction less than 1).

$$\frac{766}{12}$$

$12 \overline{)766}$ 063, 72

12, 12, 12, 12, 12 → 60; + 12 → 72

Answer: $63 \frac{10}{12}$

2) Substitute $x = kt + p$ into

$$x^2 - 2px + 7$$

Simplify the result as much as possible.

When you're done, write the result of this simplification here ⟶ $kt^2 - p^2 - 2pkt + 7$

$(kt+p)^2 - 2p(kt+p) + 7$

$kt^2 + p^2 - 2pkt - 2p^2 + 7$

$kt^2 - p^2 - 2pkt + 7$

$1p^2 + -2p^2$

$-1p^2$

3) Find the equation of a line with slope $m = 3$ and y-intercept $b = -5$.

$y = 3x - 5$

$y = mx + b$

$y =$ $3x - 5$

4) Find the equation of a line with slope $m = 3$ passing through the point $(1, 6)$.

$y = 3x + b$

$(1, 6)$

$x \quad y$

$6 = 3(1) + b$

$b = 3$

$y = 3x + 3$

$y =$ $3x + 3$

5) Find the point where the lines with equations $y = 5x - 10$ and $y = -3x + 6$ cross.

$5x - 10 = -3x + 6$

$8x = 16$

$x = 2$

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

$2 \quad 0$

$y = 5(2) - 10$

$y = 10 - 10$

$y = 0$

$y = -3(2) + 6$

$y = -6 + 6$

$y = 0$

Quiz 3

Name: Ela Schulz **Perm Number:** 5295183

1) Write the following fraction as a mixed number (that is, a whole number and a simplified fraction less than 1).

$$\frac{766}{12}$$

$63\frac{5}{6}$

2) Substitute $x = kt + p$ into

$x^2 - 2px + 7$

Simplify the result as much as possible.

When you're done, write the result of this simplification here → $k^2t^2 - p^2 + 7$

3) Find the equation of a line with slope $m = 3$ and y-intercept $b = -5$.

$y = mx + b$

$y = 3x - 5$

$y =$ $\boxed{3x - 5}$

4) Find the equation of a line with slope $m = 3$ passing through the point $(1, 6)$.

$y = 3x + b$

$\frac{6}{3} = \frac{3(1)}{3} + b$

$2 = b$

$y =$ $\boxed{3x + 2}$

5) Find the point where the lines with equations $y = 5x - 10$ and $y = -3x + 6$ cross.

$5x - 10 = -3x + 6$

$8x = 16$

$x = 2$

$y = 5(2) - 10$

$y = 0$

$(x, y) =$ $\boxed{(2, 0)}$

Quiz 3

Name: Riley Clark **Perm Number:** 5155312

1) Write the following fraction as a mixed number (that is, a whole number and a simplified fraction less than 1).

$$\frac{766}{12}$$

63.833
12 | 766.0
72
46
36
100
96
40
36
4

$63\frac{10}{12} =$

$63\frac{5}{6}$

$63\frac{5}{6}$

2) Substitute $x = kt + p$ into

$$x^2 - 2px + 7$$

Simplify the result as much as possible.

When you're done, write the result of this simplification here ⟶ $(kt)^2 - p^2 + 7$

$(kt+p)(kt+p) - 2p(kt+p) + 7$

$(kt^2 + ktp + ktp + p^2) - (2ktp + 2p^2) + 7$

$2ktp$

$kt^2 + p^2 - 2p^2 + 7$

$kt^2 - p^2 + 7$

3) Find the equation of a line with slope $m = 3$ and y-intercept $b = -5$.

$y = mx + b$ $\quad y - y_0 = m(x - x_0)$

$y = 3x - 5$

$y =$ $3x - 5$

4) Find the equation of a line with slope $m = 3$ passing through the point $(1, 6)$.

$y - 6 = m(x - 1)$

$y - 6 =$

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

$y - 6 = 3x - 3$

$y = 3x + 3$

$y = 3x + b$ $\quad (2, 9)$

$9 = 6 + b$

$b = 3 + 3 = 6$

$y = 3x - 17$

$9 = 6 - 17$

$b = -17$ $y =$ $3x + 3$

5) Find the point where the lines with equations $y = 5x - 10$ and $y = -3x + 6$ cross.

$(0, -10)$, $(0, 6)$

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

$(2, 0)$, $(2, 6)$

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

Quiz 3

Name: Marc Nunez **Perm Number:** 8047103

1) Write the following fraction as a mixed number (that is, a whole number and a simplified fraction less than 1).

$$\frac{766}{12}$$

$$\begin{array}{r} 63 \text{ r } 10 \\ 12\overline{)766} \\ -72\downarrow \\ \hline 46 \\ -36 \\ \hline 10 \end{array}$$

$63\frac{10}{12}$

$63\frac{10}{12}$

2) Substitute $x = kt + p$ into

$$x^2 - 2px + 7$$

Simplify the result as much as possible.

When you're done, write the result of this simplification here ⟶ $k^2t^2 + ktp - pkt - p^2 + 7$

$(kt+p)^2 - 2p(kt+p) + 7$

$-\cancel{2}pkt - \cancel{2}p^2 + 7$

$(kt+p)(kt+p)$

$k^2t^2 + ktp - \cancel{pkt} - \cancel{p^2}$

$k^2t^2 + ktp - pkt - p^2 + 7$

3) Find the equation of a line with slope $m = 3$ and y-intercept $b = -5$.

$y = 3x - 5$

$y =$ $3x - 5$

4) Find the equation of a line with slope $m = 3$ passing through the point $(1, 6)$.

$y = 3x + b$

$6 = 3 + b$

$3 = b$

$y =$ $3x + 3$

5) Find the point where the lines with equations $y = 5x - 10$ and $y = -3x + 6$ cross.

$5x - 10 = -3x + 6$

$8x = 16$

$x = 2$

$y = 5(2) - 10$

$y = 0$

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

Quiz 3

Name: Nathan Startovich **Perm Number:** 4191813

1) Write the following fraction as a mixed number (that is, a whole number and a simplified fraction less than 1).

$$\frac{766}{12}$$

12 x 10 = 120
12 x 7 = 84
766
63 10/12

63 5/6

63
12
66
60
6

2) Substitute $x = kt + p$ into

$$x^2 - 2px + 7$$

Simplify the result as much as possible.

When you're done, write the result of this simplification here ⟶ $(kt)^2 - p^2 + 7$

$(kt+p)(kt+p)$
$(kt)^2 + ktp + ktp + p^2$

$(kt+p)^2 - 2p(kt+p) + 7$
$(kt)^2 + 2ktp + p^2 - 2ktp - 2p^2 + 7$
$(kt)^2 - p^2 + 7$

3) Find the equation of a line with slope $m = 3$ and y-intercept $b = -5$.

$y =$ $3x - 5$

4) Find the equation of a line with slope $m = 3$ passing through the point $(1, 6)$.

$y = 3x +$

$y =$ $3x + 3$

$(1, 6)$

$(0, 3)$

5) Find the point where the lines with equations $y = 5x - 10$ and $y = -3x + 6$ cross.

$5x - 10 = -3x + 6$

$+3x \quad +10 \quad +3x \quad +10$

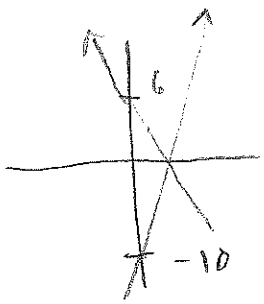
$8x = 16$

$x = 2$

$5(2) - 10 = 0$

$-3(2) + 6 = 0$

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



Quiz 3

Name: Mason Montgomery **Perm Number:** 392956

1) Write the following fraction as a mixed number (that is, a whole number and a simplified fraction less than 1).

$$\frac{766}{12}$$

$63\frac{5}{6}$

60

60 61 62 63 64
720 732 744 756 768

60
12
720

65
760

2) Substitute $x = kt + p$ into

$$x^2 - 2px + 7$$

Simplify the result as much as possible.

When you're done, write the result of this simplification here ⟶ $k^2t^2 - p^2 - 2pkt + 7$

$(kt+p)^2 - 2p(kt+p) + 7$

$k^2t^2 + p^2 - 2pkt - 2p^2 + 7$

$k^2t^2 - p^2 - 2pkt + 7$

$(kt+p)^2 - 2p(kt+p)+7$

$kt^2 + p^2 - 2pkt - 2p^2 + 7$

k

3) Find the equation of a line with slope $m = 3$ and y-intercept $b = -5$.

$b = -5$

$m = 3$

$y = mx + b$

$y =$ $3x - 5$

4) Find the equation of a line with slope $m = 3$ passing through the point $(1, 6)$.

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

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

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

$= 3x - 3 + 6$

$y = 3x + 3$

$y =$ $3x + 3$

$3x - 3$

check

$y - 6 = 3x - 3$

$y = 3x - 3 + 6$

$y = 3x + 3$

5) Find the point where the lines with equations $y = 5x - 10$ and $y = -3x + 6$ cross.

$5x - 10 = -3x + 6$

$5x + 3x = 6 + 10$

$8x = 16$

$x = 2$

$y = 5(2) - 10$

$= 10 - 10$

$y = 0$

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

check

$y = -3(2) + 6$

$= -6 + 6$

$y = 0$

Quiz 3

Name: Ian Huang **Perm Number:** 3926409

1) Write the following fraction as a mixed number (that is, a whole number and a simplified fraction less than 1).

$$\frac{766}{12}$$

$63\frac{5}{6}$

$12 \overline{)766}$ 63.833

72

46

36

100

96

40

36

40

$12 \times 8 = 96$

$12 \times 9 = 108$

$63 \times 12 = 126 + 630 = 756$

$766 - 756 = 10$

$63\frac{10}{12} = 63\frac{5}{6}$

2) Substitute $x = kt + p$ into

$$x^2 - 2px + 7$$

Simplify the result as much as possible.

When you're done, write the result of this simplification here ⟶ $k^2t^2 - p^2 + 7$

$(kt+p)^2 - 2p(kt+p) + 7$

$(kt+p)(kt+p) - 2p(kt+p) + 7$

$k^2t^2 + ktp + ktp + p^2 - 2ktp - 2p^2 + 7$

$k^2t^2 + 2ktp + p^2 - 2ktp - 2p^2 + 7$

$k^2t^2 - p^2 + 7$

Check

$k^2t^2 + ktp + ktp + p^2 - 2ktp - 2p^2 + 7$

$k^2t^2 + 2ktp + p^2 - 2ktp - 2p^2 + 7$

$k^2t^2 - p^2 + 7$

3) Find the equation of a line with slope $m = 3$ and y-intercept $b = -5$.

$y =$ $3x-5$

4) Find the equation of a line with slope $m = 3$ passing through the point $(1, 6)$.

$(1, 6)$

$y =$ $\frac{1}{2}x + \frac{b}{6}$

$6 = 3x + b$

$y = \frac{1}{2}x + \frac{b}{6}$

5) Find the point where the lines with equations $y = 5x - 10$ and $y = -3x + 6$ cross.

$x = 2$

$y = 10 - 10$

0

$(x, y) =$ $2, 5$

$y = -5 + 6$

$= 0$

$-3 = 5x - 10$

$5 = 5x$

$x = 1$

$-5 = -3x + 6$

$-11 = -3x$

$1 = -3x + 6$

$5 = -3x$

$5 = -3x + 6$

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

$1 = 5x - 10$

$11 = 5x$

$\frac{11}{5} = x$

$5 = 5x - 10$

$15 = 5x$

$x = 3$

$2 = 5x - 10$

$12 = 5x$

$3 = 5x$

Quiz 3

Name: Taylor Iden **Perm Number:** 570941-5

1) Write the following fraction as a mixed number (that is, a whole number and a simplified fraction less than 1).

$$\frac{766}{12}$$

063.83
12 | 7660
-72
46
-36
100
-96
40
-36
4

$63\frac{83}{100}$

$\frac{83}{100}$

$k^2t^2+kpt+kpt+p^2-2px+7$
$k^2t^2+2kpt+p^2$

2) Substitute $x = kt + p$ into

$$x^2 - 2px + 7$$

Simplify the result as much as possible.

When you're done, write the result of this simplification here ⟶ $k^2t^2-p^2+7$

$(kt+p)^2 = -2p(kt+p)+7$

$(kt+p)(kt+p) = -2pkt-2p^2+7$

$k^2t^2+ktp+kpt+p^2$

$k^2t^2+2ktp+p^2 = -2pkt-2p^2+7$
$+2p^2$
$k^2t^2+2ktp+3p^2 = -2pkt+7$
$+2pkt$
$k^2t^2+4ktp+3p^2=7$

$k^2t^2+2ktp+p^2-2ktp-p^2+7$
$k^2t^2-p^2+7$

3) Find the equation of a line with slope $m = 3$ and y-intercept $b = -5$.

$y = mx + b$

$3x + -5$

$y =$ $3x - 5$

4) Find the equation of a line with slope $m = 3$ passing through the point $(1, 6)$. $(2, 9)$

$y = 3x + b$

Slope $\frac{3}{1}$

$y =$ $3x + 2$

$y = 3(x) + b$

$6 \quad 1 \qquad y = 2$

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

5) Find the point where the lines with equations $y = 5x - 10$ and $y = -3x + 6$ cross.

$5x - 10 = -3x + 6$

$+3x + 10 \quad +3x + 10$

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

~~$+5x$~~

$\frac{8x}{8} = \frac{16}{8}$

$x = 2$

$y = 5(2) - 10$

$10 - 10$

$y = 0$

$y = -3(2) + 6$

$-6 + 6$

$y = 0$

Quiz 3

Name: Candice Moreno **Perm Number:** 8930998

Section T: 8:00 AM

76
−72
96

1) Write the following fraction as a mixed number (that is, a whole number and a simplified fraction less than 1).

$$\frac{766}{12}$$ ·12

6. 2

766 · 12

2) Substitute $x = kt + p$ into

$$x^2 - 2px + 7$$

Simplify the result as much as possible.

When you're done, write the result of this simplification here → ~~$K^2t^2 + 2Ktp$~~

$K^2t^2 - 1p^2$

$(Kt+p)^2 - 2p(Kt+p) + 7$

$(Kt+p)(Kt+p)$ $-2Ktp$ $-2p^2$

$K^2t^2 + Ktp + Ktp + p^2$

$K^2t^2 + 2Ktp + p^2 - 2Ktp - 2p^2$

$K^2t^2 - p^2$

3) Find the equation of a line with slope $m = 3$ and y-intercept $b = -5$.

$y = mx + b$

$y = 3x + -5$

$y =$ $\boxed{3x + -5}$

4) Find the equation of a line with slope $m = 3$ passing through the point $(1, 6)$. (x, y)

$y = mx + b$

$6 = 3(1) + b$

$6 = 3 + b$

$-3 \quad -3$

$3 = b \longrightarrow$ equation $\boxed{y = 3x + 3}$

$y =$ $\boxed{3x + 3}$

5) Find the point where the lines with equations $y = 5x - 10$ and $y = -3x + 6$ cross.

$y = 5x - 10$

when $x = 2$, $y = 0$

$x = 3$, $y = 5$

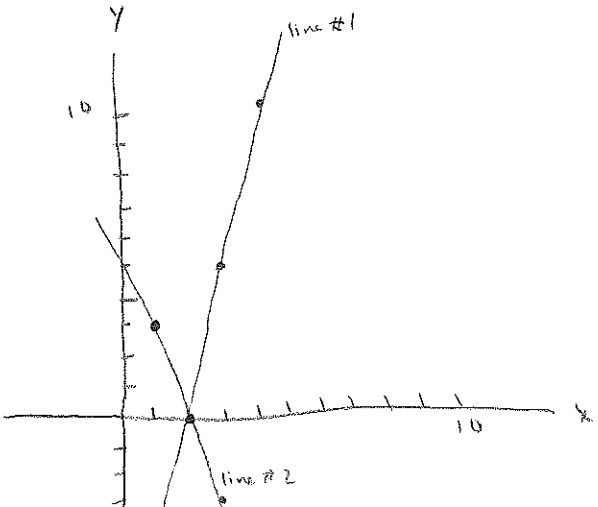
$x = 4$, $y = 10$

$y = -3x + 6$

when $x = 2$, $y = 0$

when $x = 1$, $y = 3$

when $x = 3$, $y = -3$



$(x, y) =$ $\boxed{(2, 0)}$

Quiz 3

Name: Jessica Taghizadeh **Perm Number:** 6681472

1) Write the following fraction as a mixed number (that is, a whole number and a simplified fraction less than 1).

$$\frac{766}{12}$$

$63\frac{10}{12} \rightarrow 63\frac{5}{6}$

$63\frac{5}{6}$

2) Substitute $x = kt + p$ into

$$x^2 - 2px + 7$$

Simplify the result as much as possible.

When you're done, write the result of this simplification here → $kt^2 - p^2 + 7$

$(kt+p)^2 - 2p(kt+p) + 7$

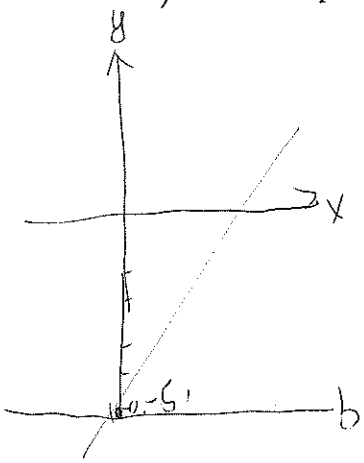
$(kt+p)(kt+p) - 2p(kt+p) + 7$

$kt^2 + ktp + ktp + p^2 - 2p(kt+p) + 7$

$kt^2 + 2ktp + p^2 - 2ktp - 2p^2 + 7$

$kt^2 - p^2 + 7$

3) Find the equation of a line with slope $m = 3$ and y-intercept $b = -5$.



$y = 3x + b$

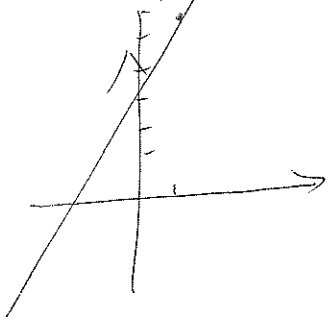
$3 \cdot 0 + b = -5$

$b = -5$

$y = 3x - 5$

$y =$ $3x - 5$

4) Find the equation of a line with slope $m = 3$ passing through the point $(1, 6)$.



$3x + b = y$

$3 \cdot 1 + b = 6$

$b = 3$

$y = 3y + 3$

$y =$ $3x + 3$

5) Find the point where the lines with equations $y = 5x - 10$ and $y = -3x + 6$ cross.

$5x - 10 = -3x + 6$

$5x + 3x = 6 + 10$

$8x = 16$

$x = 2$

$5 \times 2 - 10 = 0$

$-3 \times 2 + 6 = 0$

$y = 0$

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

Quiz 3

Name: ~~Anmyi~~ Anyi Zhao **Perm Number:** X3070G0

1) Write the following fraction as a mixed number (that is, a whole number and a simplified fraction less than 1).

$$\frac{766}{12}$$

$63\frac{10}{12} = 63\frac{5}{6}$

$63\frac{5}{6}$

2) Substitute $x = kt + p$ into

$$x^2 - 2px + 7$$

Simplify the result as much as possible.

When you're done, write the result of this simplification here ⟶ $k^2t^2 - p^2 + 7$

$(kt+p)^2 - 2p(kt+p) + 7$

$= (kt)^2 + p^2 + 2ktp - 2ktp - 2p^2 + 7$

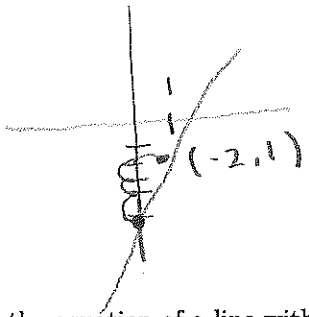
$= (kt)^2 - p^2 + 7$

3) Find the equation of a line with slope $m = 3$ and y-intercept $b = -5$.

$y = mx + b$

$y = 3x - 5$ → $(0, -5)$

$\frac{\text{rise}}{\text{run}} = \frac{3}{1}$



$y =$ **$3x - 5$**

4) Find the equation of a line with slope $m = 3$ passing through the point $(1, 6)$.

$y = 3x + b$

$6 = 3(1) + b$

$6 = 3 + b$

$-3 \quad -3$

$b = 3$ → $y = 3x + 3$

$y =$ **$3x + 3$**

5) Find the point where the lines with equations $y = 5x - 10$ and $y = -3x + 6$ cross.

$5x - 10 = -3x + 6$

$+10 \qquad +10$

$5x = -3x + 16$

$+3x \quad +3x$

$8x = 16$

$8 \quad 8$

$x = 2$ → Plug in

$y = -3(2) + 6$

$y = -6 + 6$

$y = 0$

$(x, y) =$ **$(2, 0)$**

Quiz 3

04/12/22

Name: Isabella Bishop **Perm Number:** 3760204

1) Write the following fraction as a mixed number (that is, a whole number and a simplified fraction less than 1).

$$\frac{766}{12}$$

$63\frac{5}{6}$

2) Substitute $x = kt + p$ into

$$x^2 - 2px + 7$$

Simplify the result as much as possible.

When you're done, write the result of this simplification here ⟶ $-p^2 + kt^2 + 7$

$x = kt + p$

↓

FOIL

$(kt + p)^2 - 2p(kt + p) + 7$

$(kt + p)(kt + p)$

$kt^2 + ktp + ktp + p^2$

$kt^2 + 2ktp + p^2$

$-2pkt - 2p^2 + 7 + kt^2 + 2ktp + p^2$

$-p^2 + kt^2 + 7$

3) Find the equation of a line with slope $m = 3$ and y-intercept $b = -5$.

$y = mx + b$

$y = 3x - 5$

$y =$ $\boxed{3x - 5}$

4) Find the equation of a line with slope $m = 3$ passing through the point $(1, 6)$.

$x, y,$

$y = mx + b$

$y = 3x + 6$

$y =$ $\boxed{3x + 6}$

5) Find the point where the lines with equations $y = 5x - 10$ and $y = -3x + 6$ cross.

$5x - 10 = -3x + 6$

$+3x + 10 \quad +3x + 10$

$\frac{8x}{8} = \frac{16}{8}$

$x = 2$

$(x, y) =$ $\boxed{(2, 0)}$

$y = 5(2) - 10$

$y = 10 - 10$

$y = 0$

$(2, 0)$

Quiz 3

Name: Iliana DeLaRiva **Perm Number:** 6594473

1) Write the following fraction as a mixed number (that is, a whole number and a simplified fraction less than 1).

$$\frac{766}{12} = 10\,\frac{63}{12} \div 3 = \frac{21}{4} = 10\,\frac{21}{4}$$

$$12\overline{)766}\quad 63,\ -72,\ 46,\ -36,\ 10$$

$$10\,\frac{21}{4}$$

$$4\overline{)21}\quad 5,\ -20,\ 1 \qquad = 1\,\frac{5}{4}$$

2) Substitute $x = kt + p$ into

$$x^2 - 2px + 7$$

Simplify the result as much as possible.

When you're done, write the result of this simplification here ⟶ $(kt+p)^2 - 2pkt - 2p^2 + 7$

$$(kt+p)^2 - 2p(kt+p) + 7$$

$$(kt+p)^2 - 2pkt - 2p^2 + 7$$

20/ $\frac{4}{5}$ = 80/

3) Find the equation of a line with slope $m = 3$ and y-intercept $b = -5$.

$y = mx + b$

$y = 3x - 5$

$y =$ $3x - 5$

4) Find the equation of a line with slope $m = 3$ passing through the point $(1, 6)$.

x y

$y = mx + b$

$y = 3x + b$

$6 = 3(1) + b$

$6 = 3 + b$

$-3 \quad -3$

$3 = b$

$y = 3x + 3$

$6 = 3(1) + 3$

$6 = 3 + 3$

$6 = 6$ ✓

$y =$ $3x + 3$

5) Find the point where the lines with equations $y = 5x - 10$ and $y = -3x + 6$ cross.

$5x - 10 = -3x + 6$

$+3x \quad +10 \quad +3x \quad +10$

$\frac{8x}{8} = \frac{16}{8}$

$x = 2$

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

$y = 5(2) - 10$

$y = 10 - 10$

$y = 0$

$y = -3(2) + 6$

$y = -6 + 6$

$y = 0$

$0 = 5(2) - 10$

$0 = 10 - 10$

$0 = 0$ ✓

$0 = -3(2) + 6$

$0 = -6 + 6$

$0 = 0$ ✓

Quiz 3

Name: Victoria McNabb **Perm Number:** 5171038

1) Write the following fraction as a mixed number (that is, a whole number and a simplified fraction less than 1).

$$\frac{766}{12}$$

$63\frac{10}{12} = 63\frac{5}{6}$

$63\frac{5}{6}$

2) Substitute $x = kt + p$ into $x^2 - 2px + 7$

Simplify the result as much as possible.

When you're done, write the result of this simplification here → $kt^2 - p^2 + 7$

$(kt+p)^2 - 2p(kt+p) + 7$

$kt^2 + 2ktp + p^2 - 2pkt - 2p^2 + 7$

$kt^2 - p^2 + 7$

$k=1$, $t=2$, $p=3$

$(kt+p)^2 - 2p(kt+p) + 7$

$-2pkt - 2p^2 + 7$

$(kt+p)(kt+p)$

$kt^2 + ktp + ktp + p^2$

$kt^2 + 2ktp + p^2$

$kt^2 + 2ktp + p^2 - 2pkt - 2p^2 + 7$

$kt^2 + 2ktp - p^2 - 2pkt + 7$

3) Find the equation of a line with slope $m = 3$ and y-intercept $b = -5$.

$y = mx + b$

$y = 3(x) - 5$

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

4) Find the equation of a line with slope $m = 3$ passing through the point $(1, 6)$.

$y = mx + b$

$y = 3x + b$

$6 = 3(1) + b$

$3 = 3 + b$

$-3 \quad -3$

$3 = b$

$y =$ $3x + 3$

5) Find the point where the lines with equations $y = 5x - 10$ and $y = -3x + 6$ cross.

$5x - 10 = -3x + 6$

$+3x + 10 \quad +3x + 10$

$\frac{8x}{8} = \frac{16}{8}$

$x = 2$

$y = 5(2) - 10$

$y = 10 - 10$

$y = 0$

$y = 0$

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

Quiz 3

Name: Justin Jose **Perm Number:** 5345780

1) Write the following fraction as a mixed number (that is, a whole number and a simplified fraction less than 1).

$$\frac{766}{12}$$

$63\frac{10}{12} \div \frac{2}{2} = 63\frac{5}{6}$

$63\frac{5}{6}$

2) Substitute $x = kt + p$ into

$$x^2 - 2px + 7$$

Simplify the result as much as possible.

When you're done, write the result of this simplification here ⟶ $kt^2 - p^2 + 7$

$(kt+p)^2 - 2p(kt+p) + 7$

$kt^2 + 2ktp + p^2 - 2ktp - 2p^2 + 7$

$kt^2 - p^2 + 7$

3) Find the equation of a line with slope $m = 3$ and y-intercept $b = -5$.

$y = 3x - 5$

$y =$ $3x - 5$

4) Find the equation of a line with slope $m = 3$ passing through the point $(1, 6)$.

$(1, 6)$
$x \; y$

$y = mx + b$

$6 = 3(1) + b$

$6 = 3 + b$

$3 = b$

$y = 3x + 3$

$y =$ $3x + 3$

5) Find the point where the lines with equations $y = 5x - 10$ and $y = -3x + 6$ cross.

$y = 5(2) - 10$

$= 10 - 10$

$y = 0$

$y = -3(2) + 6$

$= -6 + 6$

$y = 0$

$5x - 10 = -3x + 6$
$+10 \qquad +10$

$5x = -3x + 16$
$+3x \qquad +3x$

$8x = 16$

$x = 2$

$(2, 0)$

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

Quiz 3

Name: Mustpha Saeed **Perm Number:** 4744215

1) Write the following fraction as a mixed number (that is, a whole number and a simplified fraction less than 1).

$$\frac{766}{12}$$

$63\frac{5}{6}$

2) Substitute $x = kt + p$ into

$$x^2 - 2px + 7$$

Simplify the result as much as possible.

When you're done, write the result of this simplification here → $(kt)^2 - p^2 + 7$

3) Find the equation of a line with slope $m = 3$ and y-intercept $b = -5$.

$y = mx + b$

$y = 3x + (-5)$

$y =$ $\boxed{3x - 5}$

4) Find the equation of a line with slope $m = 3$ passing through the point $(1, 6)$.

$(1, 6)$ $m = 3$

$y = mx + b$

$6 = 3(1) + b$

$6 = 3 + b$

$-3 \quad -3$

$3 = b$

$y = 3x + 3$

$y =$ $\boxed{3x + 3}$

$y = 3x + 3$

$6 = 3(1) + 3$

$6 = 3 + 3$

$6 = 6$ ✓

5) Find the point where the lines with equations $y = 5x - 10$ and $y = -3x + 6$ cross.

A: $y = 5x - 10$

$\frac{\text{rise}}{\text{run}} = \frac{5}{1}$

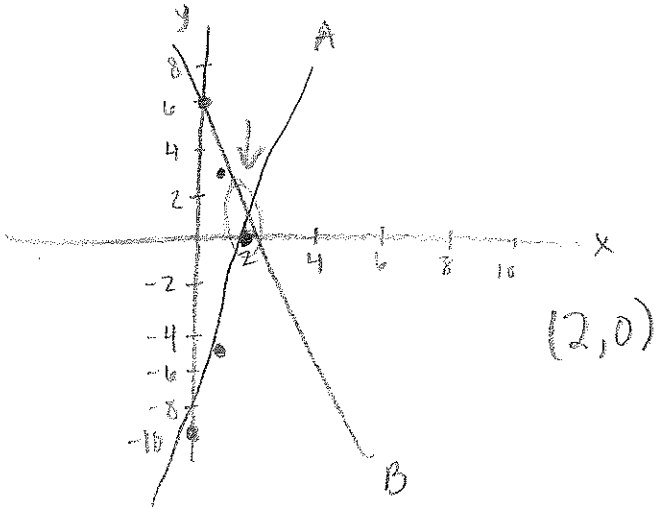
$b = -10$

B: $y = -3x + 6$

$\frac{\text{rise}}{\text{run}} = -\frac{3}{1}$

$b = 6$

$(x, y) =$ $\boxed{(2, 0)}$



(2, 0)

$y = 5x - 10$

$0 = 5(2) - 10$

$0 = 10 - 10$

$0 = 0$ ✓

$y = -3x + 6$

$0 = -3(2) + 6$

$0 = -6 + 6$

$0 = 0$ ✓

Quiz 3

Name: Isabella Agrusa **Perm Number:** 3962537

1) Write the following fraction as a mixed number (that is, a whole number and a simplified fraction less than 1).

$$\frac{766}{12}$$

$63\frac{10}{12} = 63\frac{5}{6}$

$63\frac{5}{6}$

33 × 12 = 66, 33, 396

1 66 × 12 = 132, 66, 792

60 × 12 = 120, 60, 720

63 × 12 = 126, 63, 756 → 10 left over

64 × 12 = 128, 64, 768

2) Substitute $x = kt + p$ into

$$x^2 - 2px + 7$$

Simplify the result as much as possible.

When you're done, write the result of this simplification here → $kt^2 + 3p^2 - 2p(kt) + 7$

$x = kt + p$

$x^2 - 2px + 7$

$(kt+p)^2 - 2p(kt+p) + 7$

$kt^2 + p^2 - 2p(kt) + 2p^2 + 7$ ← rearrange

$kt^2 + p^2 + 2p^2 - 2p(kt) + 7$

$kt^2 + 3p^2 - 2p(kt) + 7$

3) Find the equation of a line with slope $m = 3$ and y-intercept $b = -5$.

$y = mx + b$

$y = 3x - 5$

$y =$ $\boxed{3x - 5}$

4) Find the equation of a line with slope $m = 3$ passing through the point $(\overset{x}{1}, \overset{y}{6})$.

$6 = 3(1) + b$

$-3 \quad -3$

$3 = b$

$y = 3x + 3$

$y =$ $\boxed{3x + 3}$

5) Find the point where the lines with equations $y = 5x - 10$ and $y = -3x + 6$ cross.

$5x - 10 = -3x + 6$

$+3x \quad +10 \quad +3x \quad +10$

$\frac{8x}{8} = \frac{16}{8}$

$x = 2$

$y = 5(2) - 10$

$10 - 10$

$y = 0$

$y = -3(2) + 6$

$y = -6 + 6 = 0$

$(x, y) =$ $\boxed{(2, 0)}$

Quiz 3

Name: Kyla Drengler Spin **Perm Number:** 8696767

1) Write the following fraction as a mixed number (that is, a whole number and a simplified fraction less than 1).

$$\frac{766}{12}$$

12, 24, 36, 48

60 ~ 5

72 ~ 6

$$\begin{array}{r} 63 \\ 12\,\overline{)766} \\ -72 \\ \hline 46 \\ -36 \\ \hline 10 \end{array}$$

$63\frac{10}{12}$

$63\frac{5}{6}$

Answer: $63\frac{5}{6}$

$63 \times 6 = 378$

$378 + 5 = 383$

$383 \times 2 = 766$

2) Substitute $x = kt + p$ into

$$x^2 - 2px + 7$$

Simplify the result as much as possible.

When you're done, write the result of this simplification here ⟶ $(kt)^2 - p^2 + 7$

$-2pkt - 2p^2$

$(kt+p)^2 - 2p(kt+p) + 7$

$(kt)^2 + 2ktp + p^2 - 2pkt - 2p^2 + 7$

$(kt)^2 - p^2 + 7$

	kt	p
kt	$(kt)^2$	ktp
p	ktp	p^2

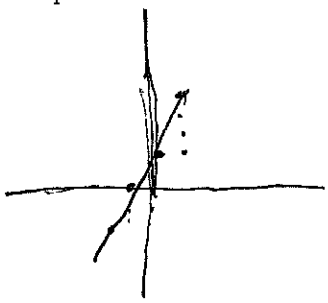
3) Find the equation of a line with slope $m = 3$ and y-intercept $b = -5$.

$y = mx + b$

$y = 3x - 5$

$y =$ $3x-5$

4) Find the equation of a line with slope $m = 3$ passing through the point $(1, 6)$.



$y =$ $3x+3$

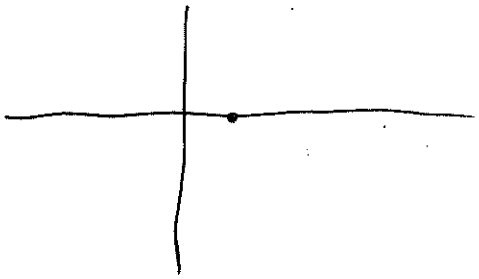
5) Find the point where the lines with equations $y = 5x - 10$ and $y = -3x + 6$ cross.

$5x - 10 = -3x + 6$

$8x = 16$

$x = 2$

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



Quiz 3

Name: Max Sheldon **Perm Number:** 6300784

1) Write the following fraction as a mixed number (that is, a whole number and a simplified fraction less than 1).

$$\frac{766}{12}$$

63.83
12 | 766000
44
10
63
12
126
630
756

$6\frac{5}{6}$

2) Substitute $x = kt + p$ into

$$x^2 - 2px + 7$$

Simplify the result as much as possible.

When you're done, write the result of this simplification here → ~~$ktkt - p^2 + 7$~~ $(kt)^2 - p^2 + 7$

$(kt+p)^2 - 2p(kt+p) + 7$

$(kt+p)(kt+p)$

$(kt)^2 + ktp + ktp + p^2 - 2pkt - 2p^2 + 7$

$(kt)^2 - p^2 + 7$

~~$(10)^2 - (8)^2 + 9$~~

~~$10 - 8 + 3$~~ 5

3) Find the equation of a line with slope $m = 3$ and y-intercept $b = -5$.

$y = 3x - 5$

$y =$ $3x - 5$

---

4) Find the equation of a line with slope $m = 3$ passing through the point $(1, 6)$.

$y = mx + b$

$6 = 3(1) + b$

$b = 3$

$y = 3x + 3$

$y =$ $3x + 3$

5) Find the point where the lines with equations $y = 5x - 10$ and $y = -3x + 6$ cross.

$5x - 10 = -3x + 6$

$8x = 16$

$x = 2$

$y = 5(2) - 10$

$y = 0$

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

Quiz 3

Name: Fleurette Juda **Perm Number:** 5279351

1) Write the following fraction as a mixed number (that is, a whole number and a simplified fraction less than 1).

$$\frac{766}{12}$$

$63\frac{10}{12}$ or $63\frac{5}{6}$

$63\frac{10}{12}$

$63\frac{5}{6}$

2) Substitute $x = kt + p$ into

$$x^2 - 2px + 7$$

Simplify the result as much as possible.

When you're done, write the result of this simplification here ⟶ $(kt)^2 - p^2 + 7$

$(kt+p)^2 - 2p(kt+p) + 7$

$(kt+p)(kt+p) - 2ktp - 2p^2 + 7$

$(kt)^2 + 2ktp + p^2 - 2ktp - 2p^2 + 7$

$(kt)^2 - p^2 + 7$

3) Find the equation of a line with slope $m = 3$ and y-intercept $b = -5$.

$y = mx + b$

$y = 3x - 5$

$y =$ $\boxed{3x - 5}$

4) Find the equation of a line with slope $m = 3$ passing through the point $(1, 6)$.

x y

$y = mx + b$

$y = 3x + b$

$6 = 3(1) + b$

$6 = 3 + b$

$-3 \quad -3$

$3 = b$

$y =$ $\boxed{3x + 3}$

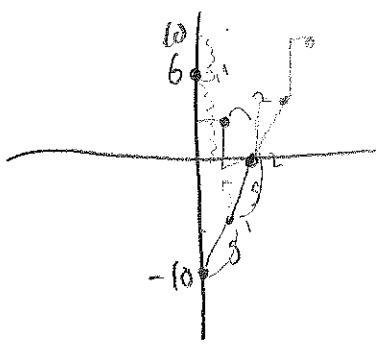
5) Find the point where the lines with equations $y = 5x - 10$ and $y = -3x + 6$ cross.

$0 = 5(2) - 10$

$+10 \qquad +10$

$10 = 10$

$(x, y) =$ $\boxed{(2, 0)}$



Quiz 3

Name: Leo Safir **Perm Number:** 5194121

1) Write the following fraction as a mixed number (that is, a whole number and a simplified fraction less than 1).

$$\frac{766}{12}$$

$63\frac{5}{6}$ $\frac{10}{12}$

close one

$12 \times 50 = 600$

$12 \times 12 = 144$ $+12$

$12 \times 62 = 744$ 156

$12 \times 63 = 756\frac{10}{12}$

$720 + 36 = 756 + \frac{10}{12} = 766$

2) Substitute $x = kt + p$ into

$$x^2 - 2px + 7$$

Simplify the result as much as possible.

When you're done, write the result of this simplification here ⟶ $kt^2 - p^2 + 7$

$(kt+p)^2 - 2p(kt+p) + 7$

$3 \cdot 5 \cdot 2 = 30$

$2 \cdot 5 \cdot 3 = 30$

$(kt+p)(kt+p)$

$kt^2 + ktp + pkt + p^2 - 2pkt - 2p^2 + 7$

$kt^2 + p^2 - 2p^2 + 7 = kt^2 - p^2 + 7$

3) Find the equation of a line with slope $m = 3$ and y-intercept $b = -5$.

$y = mx + b$

$y = 3x - 5$

$y =$ $3x - 5$

4) Find the equation of a line with slope $m = 3$ passing through the point $(1, 6)$.

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

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

$y = 6 + 3x - 3$

$y = 3x + 3$

$y =$ $3x + 3$

5) Find the point where the lines with equations $y = 5x - 10$ and $y = -3x + 6$ cross.

$5x - 10 = -3x + 6$

$8x = 16$

$x = 2$

$y = 5(2) - 10$

$y = 10 - 10$

$y = 0$

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

Quiz 3

Name: LUCIA CARCAMO **Perm Number:** 6185995

1) Write the following fraction as a mixed number (that is, a whole number and a simplified fraction less than 1).

$$\frac{766}{12}$$

$63\frac{10}{12}$

$63\frac{5}{6}$

$63\frac{10}{12} = 63\frac{5}{6}$

2) Substitute $x = kt + p$ into

$$x^2 - 2px + 7$$

Simplify the result as much as possible.

When you're done, write the result of this simplification here → $(kt)^2 - p^2 + 7$

$(kt+p)^2 - 2p(kt+p) + 7$

$(Kt)^2 + 2ktp + p^2 - 2ktp - 2p^2 + 7$

$(kt)^2 - p^2 + 7$

$(kt+p)(kt+p)$

$(Kt)^2 + Ktp + Ktp + p^2$

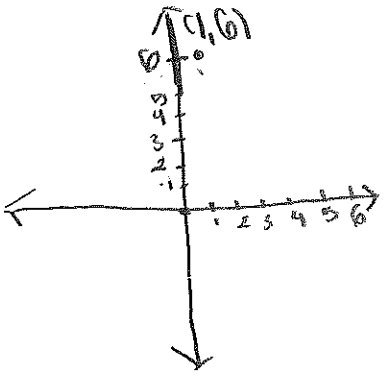
$(kt)^2 + 2ktp + p^2$

3) Find the equation of a line with slope $m = 3$ and y-intercept $b = -5$.

$y = 3x - 5$

$y =$ $\boxed{3x-5}$

4) Find the equation of a line with slope $m = 3$ passing through the point $(1, 6)$.



$6 = 3x + b$

$y = 3x + b$

$6 = 3 + b$

$3 = b$

0

$y = 3 + 3$

$y = 6$

$y =$ $\boxed{3x+3}$

$0 = 3x + 3$

$3 = 3x$

$x = 0$

5) Find the point where the lines with equations $y = 5x - 10$ and $y = -3x + 6$ cross.

$y = 5x - 10$ $y = -3x + 6$

$0 = 6 + 6$

$5 = 0$

$5x - 10 = -3x + 6$

$8x = 16$

$x = 2$

$y = 10 - 10$

0

$(x, y) =$ $\boxed{(2, 0)}$

Quiz 3

Name: Noelle Magana **Perm Number:** 62154446

1) Write the following fraction as a mixed number (that is, a whole number and a simplified fraction less than 1).

$$\frac{766}{12}$$

63.
12 ⟌ 766.0
−72↓
46
−36
100

63
×12
126
+630
756

63 5/6

63 10/12 63 5/6

2) Substitute $x = kt + p$ into

$$x^2 - 2px + 7$$

Simplify the result as much as possible.

When you're done, write the result of this simplification here ⟶ $3p^2 + kt^2 - 2pkt + 7$

$(kt+p)^2 - 2p(kt+p) + 7$

$kt^2 + p^2 - 2pkt + 2p^2 + 7$

$3p^2 + kt^2 - 2pkt + 7$

3) Find the equation of a line with slope $m = 3$ and y-intercept $b = -5$.

$y =$ $3x - 5$

4) Find the equation of a line with slope $m = 3$ passing through the point $(1, 6)$.

$6 = 3(1) + x$

$6 = 3 + x$

$-3 \quad -3$

$3 = x$

$y =$ $3x + 3$

Intersection

$5(2) - 10 \quad -3(2)$

5) Find the point where the lines with equations $y = 5x - 10$ and $y = -3x + 6$ cross.

$5x - 10 = -3x + 6$

$+3x \qquad +3x$

$8x - 10 = 6$

$+10 \quad +10$

$\frac{8x}{8} = \frac{16}{8}$

$x = 2, 0$

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

Quiz 3

Name: Kat Brydson **Perm Number:** 5100805

1) Write the following fraction as a mixed number (that is, a whole number and a simplified fraction less than 1).

$$\frac{766}{12} = \frac{383}{6}$$ 64 and 1 leftover

$$64\frac{1}{6}$$

2) Substitute $x = kt + p$ into $x^2 - 2px + 7$

Simplify the result as much as possible.

When you're done, write the result of this simplification here → $(kt)^2 - p^2 + 7$

$$(kt+p)^2 - 2p(kt+p) + 7$$

$$(kt)^2 + 2pkt + p^2 - 2pkt + p^2 + 7$$

$$(kt)^2 - p^2 + 7$$

3) Find the equation of a line with slope $m = 3$ and y-intercept $b = -5$.

$y =$ $3x - 5$

4) Find the equation of a line with slope $m = 3$ passing through the point $(1, 6)$.

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

$(1, 6)$
$-1 \quad 3$
$(0, 3)$

$y =$ $3x + 3$

$6 = 3(1) + 3$
$6 = 6$ ✓

5) Find the point where the lines with equations $y = 5x - 10$ and $y = -3x + 6$ cross.

$0 = 5(2) - 10$
$0 = 10 - 10$ ✓

$0 = -3(2) + 6$
$0 = -6 + 6$ ✓

$(0, -10)$ $(0, 6)$
$(1, -5)$ $(1, 3)$
$(2, 0)$ $(2, 0)$

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

Quiz 3

Name: Samuel Huff **Perm Number:** 4090189

1) Write the following fraction as a mixed number (that is, a whole number and a simplified fraction less than 1).

$$\frac{766}{12}$$

$12 \times 10 = 126$

$63 \times 12 = 756$

$766 - 756 = 10$

$60 \times 12 = 720$

$3 \times 12 = 36$

$720 + 36 = 756$

$63\frac{10}{12}$

2) Substitute $x = kt + p$ into

$$x^2 - 2px + 7$$

Simplify the result as much as possible.

When you're done, write the result of this simplification here ⟶

3) Find the equation of a line with slope $m = 3$ and y-intercept $b = -5$.

$y = mx + b$

$y = 3x + (-5)$

$y =$ $3x - 5$

4) Find the equation of a line with slope $m = 3$ passing through the point $(1, 6)$.

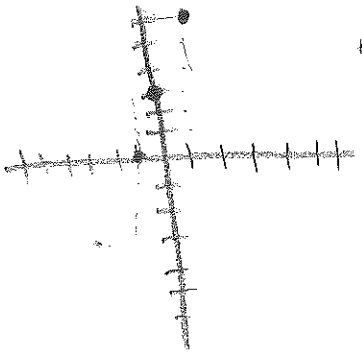
$y = \frac{3x}{1}$

$6 = 3(1)$

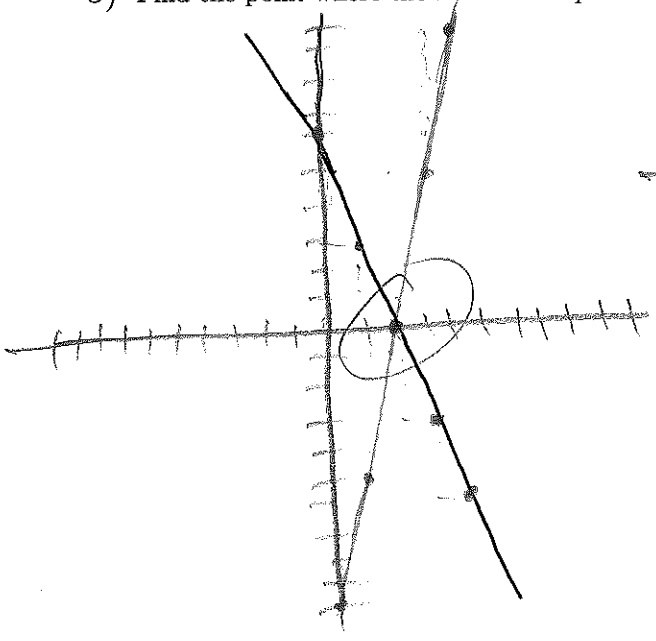
$6 = 3x$

$6 = 3(2) + b$

$y =$ $3x + 2$



5) Find the point where the lines with equations $y = 5x - 10$ and $y = -3x + 6$ cross.



$0 = 5(2) - 10$

$0 = 0$ ✓

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

Quiz 3

Name: Alvaro Marquez **Perm Number:** 6659-65006

1) Write the following fraction as a mixed number (that is, a whole number and a simplified fraction less than 1).

$$\frac{766}{12}$$

$63\frac{10}{12} = \frac{5}{6}$

2) Substitute $x = kt + p$ into

$$x^2 - 2px + 7$$

Simplify the result as much as possible.

When you're done, write the result of this simplification here → $kt^2 + p^2 + 7$

3) Find the equation of a line with slope $m = 3$ and y-intercept $b = -5$.

$y = 3x - 5$

$y =$ $3x - 5$

4) Find the equation of a line with slope $m = 3$ passing through the point $(1, 6)$.

$y = 3x + b$

$6 = 3 + b$

-3

$b = 3$

$y =$ $3x + 3$

5) Find the point where the lines with equations $y = 5x - 10$ and $y = -3x + 6$ cross.

$y = 5x - 10$

$y = -3x + 6$

$5x - 10 = -3x + 6$

$8x = 16$

$x = 2$

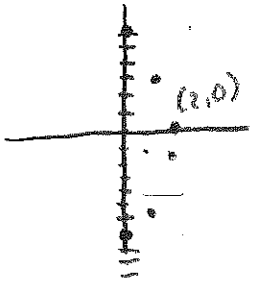
$5(2)$

$\downarrow$

$y = 10 - 10$

$y = 0$

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



Quiz 3

Name: Jessica Amezcua **Perm Number:** 5714381

1) Write the following fraction as a mixed number (that is, a whole number and a simplified fraction less than 1).

$$\frac{766}{12}$$

$63\frac{5}{6}$

2) Substitute $x = kt + p$ into

$$x^2 - 2px + 7$$

Simplify the result as much as possible.

When you're done, write the result of this simplification here ⟶ $k^2t^2 + 3p^2 - 2pkt + 7$

$(kt+p)^2 - 2p(kt+p) + 7$

$k^2t^2 + p^2 - 2pkt + 2p^2 + 7$

$k^2t^2 + 3p^2 - 2pkt + 7$

3) Find the equation of a line with slope $m = 3$ and y-intercept $b = -5$.

$y = 3x - 5$

$y =$ $3x - 5$

4) Find the equation of a line with slope $m = 3$ passing through the point $(1, 6)$.

$y = 3x + b$

$3 + b = 6$

$b = 3$

$y = 3x + 3$

$y =$ $3x + 3$

5) Find the point where the lines with equations $y = 5x - 10$ and $y = -3x + 6$ cross.

$5x - 10 = -3x + 6$

$8x = 16$

$x = 2 \quad y = 0$

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

Quiz 3

Name: Sophia Chuenan Pan **Perm Number:** 6463467

1) Write the following fraction as a mixed number (that is, a whole number and a simplified fraction less than 1).

$$\frac{766}{12}$$

$63\frac{5}{6}$

2) Substitute $x = kt + p$ into

$$x^2 - 2px + 7$$

Simplify the result as much as possible.

When you're done, write the result of this simplification here ⟶ $k^2t^2 - p^2 + 7$

$(k-t+p)^2 - 2p(kt+p) + 7$

$= k^2t^2 + 2ktp + p^2 - 2ktp - 2p^2 + 7$

$= k^2t^2 - p^2 + 7$

$(kt+p)^2 - 2p(kt+p) + 7$

$= k^2t^2 + 2ktp + p^2 - 2ktp - 2p^2 + 7$

$= k^2t^2 - p^2 + 7$

3) Find the equation of a line with slope $m = 3$ and y-intercept $b = -5$.

$y = mx + b$

$0 = 3(x) + -5$

$+5 \qquad +5$

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

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

$y = 3x + (-5)$

$y = 3\left(\frac{5}{3}\right) + -5$

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

4) Find the equation of a line with slope $m = 3$ passing through the point $(1, 6)$.

$y = mx + b$

$6 = 3(1) + b$

$6 = 3 + b$

$-3 \qquad -3$

$3 = b$

$y = 3x + 3$

$y =$ $3x + 3$

5) Find the point where the lines with equations $y = 5x - 10$ and $y = -3x + 6$ cross.

$y = 5x - 10$

$y = -3x + 6$

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

Quiz 3

Name: Paola Salazar **Perm Number:** 6515894

1) Write the following fraction as a mixed number (that is, a whole number and a simplified fraction less than 1).

$$\frac{766}{12}$$

$63\frac{1}{5}$

12 13 36 12 156 — 12 14 98 12 168 — 12 11 12 132

$\frac{766}{12} \rightarrow$ 12 | 766 (63.11) — 74 ↓ — 26 — 12 ↓ — 140 — 132 — 12

$\frac{2}{10} = \frac{1}{5}$

63 — 12 — 126 — 63 — 006

2) Substitute $x = kt + p$ into

$$x^2 - 2px + 7$$

Simplify the result as much as possible.

When you're done, write the result of this simplification here ⟶ $-2pkt + kt - p^2 + 7$

$kt + p^2 - 2p(kt + p) + 7$

$kt + p^2 - 2pkt - 2p^2 + 7$

p^2

$-2pkt - p^2 + kt + 7$

3) Find the equation of a line with slope $m = 3$ and y-intercept $b = -5$.

$y =$ $3x - 5$

4) Find the equation of a line with slope $m = 3$ passing through the point $(1, 6)$.

$6 = 3(1) + b$

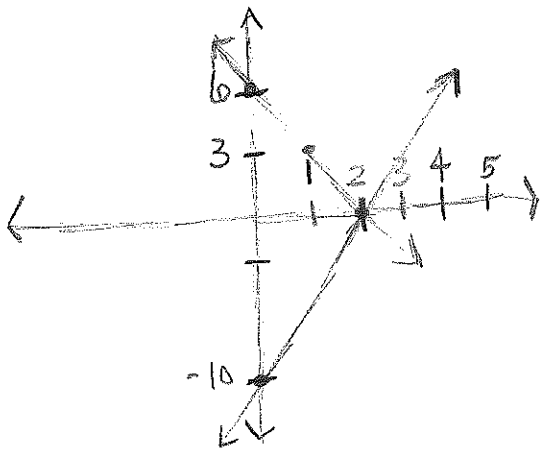
$6 = 3 + b$

$-3 \quad -3$

$3 = b$

$y =$ $3x + 3$

5) Find the point where the lines with equations $y = 5x - 10$ and $y = -3x + 6$ cross.



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

$y = 5(2) - 10$

$y = 10 - 10$

$y = 0$

$y = -3(2) + 6$

$y = -6 + 6$

$y = 0$

Quiz 3

Name: Ray Hernandez **Perm Number:** 5714902

1) Write the following fraction as a mixed number (that is, a whole number and a simplified fraction less than 1).

$$\frac{766}{12}$$

12
4

x 63
12|766
-72↓
46
-36
10

$63\frac{10}{12}$

$63\frac{5}{6}$

$63\frac{5}{6}$

2) Substitute $x = kt + p$ into

$$x^2 - 2px + 7$$

Simplify the result as much as possible.

When you're done, write the result of this simplification here ⟶ $-p^2+k^2t^2-2pkt+7$

$(kt+p)^2 - 2p(kt+p) + 7$

$k^2t^2 + p^2 - 2pkt - 2p^2 + 7$

$-p^2 + k^2t^2 - 2pkt + 7$

3) Find the equation of a line with slope $m = 3$ and y-intercept $b = -5$.

$y = mx + b$

$y = 3x - 5$

$y =$ $3x - 5$

4) Find the equation of a line with slope $m = 3$ passing through the point $(1, 6)$.

$y = 3x + b$

$6 = 3(1) + b$

$b = 3$

$y =$ $3x + 3$

$\rightarrow y = 3x + 3$

5) Find the point where the lines with equations $y = 5x - 10$ and $y = -3x + 6$ cross.

$y = 5x - 10$

$y = -3x + 6$

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

$5x - 10 = -3x + 6$

$8x = 16$

$x = 2$

$y = 5(2) - 10$

$y = 0$ ✓

check

$y = -3(2) + 6$

$y = 0$

Quiz 3

Name: Vivian de Waart **Perm Number:** 5177530

1) Write the following fraction as a mixed number (that is, a whole number and a simplified fraction less than 1).

$$\frac{766}{12}$$

$12\overline{)766}$ → 63, -72, 46, -36, 10 → $\frac{10}{12} = \frac{5}{6}$

$63\frac{5}{6}$

2) Substitute $x = kt + p$ into

$$x^2 - 2px + 7$$

Simplify the result as much as possible.

When you're done, write the result of this simplification here → $kt^2 - p^2 + 7$

$(kt+p)^2 - 2p(kt+p) + 7$

$(kt+p)(kt+p)$

$(kt^2 + ktp + ktp + p^2) - 2pkt - 2p^2 + 7$

$kt^2 + 2ktp + p^2 - 2pkt - 2p^2 + 7$

$kt^2 - p^2 + 7$

$(kt+p)^2 - 2p(kt+p) + 7$

$(kt+p)(kt+p)$

$\rightarrow kt^2 + ktp + ktp + p^2$

$-2p(kt+p)$

$\rightarrow -2pkt - 2p^2 \rightarrow +7$

$kt^2 + 2ktp + p^2 - 2pkt - 2p^2 + 7$

$kt^2 - p^2 + 7$

3) Find the equation of a line with slope $m = 3$ and y-intercept $b = -5$.

$y =$ $3x - 5$

4) Find the equation of a line with slope $m = 3$ passing through the point $(1, 6)$.

$y = mx + b$

$y = 3x + b$

$6 = 3(1) + b$

$6 = 3 + b$

$-3 \quad -3$

$3 = b$

$y = 3(1) + 3$

$3 + 3$

$y = 6$ ✓

$y =$ $3x + 3$

5) Find the point where the lines with equations $y = 5x - 10$ and $y = -3x + 6$ cross.

$5x - 10 = -3x + 6$

$+3x \quad +10 \quad +3x \quad +10$

$\frac{8x = 16}{8}$

$x = 2$

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

$y = 5(2) - 10$

$10 - 10$

$y = 0$

$y = -3(2) + 6$

-6

$y = 0$

$y = 5(0) - 10$

$0 \quad -10$

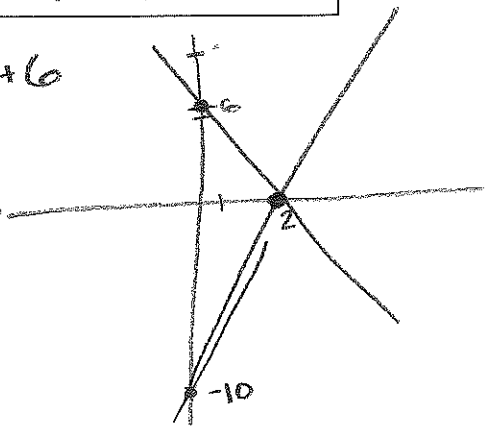
$y = -10$

$y = -3(0) + 6$

$0 + 6$

$0 = -3(x) + 6$

$\frac{-6 = -3x}{-3} + 2$



Quiz 3

Name: Toha Hossain **Perm Number:** 57557406

1) Write the following fraction as a mixed number (that is, a whole number and a simplified fraction less than 1).

$$\frac{766}{12}$$

$63.8\overline{3}$

$12\overline{)766.600}$

72

46

36

100

96

40

36

40

$63\frac{40}{12}$?

$63\frac{10}{3}$

$63\frac{10}{3}$

$12\overline{)63}$

$40\frac{63}{12}$

63
×12
126
63×
756
+10
796

40
×12
80
40×
1480
+63
543

2) Substitute $x = kt + p$ into

$x^2 - 2px + 7$

Simplify the result as much as possible.

When you're done, write the result of this simplification here → $k^2t^2 + 4ktp + 3p + 7$

$(kt+p)^2 + 2p(kt+p) + 7$

$k^2t^2 + 2ktp + p^2 + 2pkt + 2p^2 + 7$

$k^2t^2 + 4ktp + 3p^2 + 7$

$k^2t^2 + ktp + ktp + p^2 + 2ktp + 2p^2 + 7$

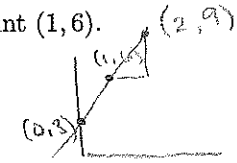
$k^2t^2 + 4ktp + 3p^2 + 7$

3) Find the equation of a line with slope $m = 3$ and y-intercept $b = -5$.

$y = 3x + (-5)$

$y =$ $\boxed{3x - 5}$

4) Find the equation of a line with slope $m = 3$ passing through the point $(1, 6)$.



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

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

$y - 6 = 3x - 3$

$y = 3x + 3$

$y =$ $\boxed{3x + 3}$

5) Find the point where the lines with equations $y = 5x - 10$ and $y = -3x + 6$ cross.

$5x - 10 = -3x + 6$ $\quad (2,0)$

$8x = 16$

$x = 2$

$(x, y) =$ $\boxed{(2,0)}$

$y = 5(2) - 10$ $\quad y = -3(2) + 6$

$y = 10 - 10$ $\quad y = -6 + 6$

$y = 0$ $\quad y = 0$

(✓)

Quiz 3

Name: Mariah Ford **Perm Number:** 61494893

1) Write the following fraction as a mixed number (that is, a whole number and a simplified fraction less than 1).

$$\frac{766}{12}$$

$63\frac{756}{766}$

$63\frac{756}{766}$

60 × 12 = 720
+ 12
732
+ 12
744
+ 12
756

63
12
126
630
756

2) Substitute $x = kt + p$ into

$$x^2 - 2px + 7$$

Simplify the result as much as possible.

When you're done, write the result of this simplification here ⟶ $Kt^2 - p^2 + 7$

~~$(Kt + p)^2 - 2p(Kt + p) + 7$~~

$2p(Kt + p) + 7$

~~$Kt^2 + p^2 - 2pKt - 2p^2 + 7$~~ $2pKt + 2p^2 + 7$

~~$Kt^2 - 2pKt - p^2 + 7$~~

$(Kt + p)(Kt + p) = Kt^2 + p^2 + 2pKt - 2pKt - 2p^2 + 7$

$Kt^2 - p^2 + 7$

3) Find the equation of a line with slope $m = 3$ and y-intercept $b = -5$.

$y = 3x - 5$ ← woah seems too easy

$y =$ $\boxed{3x - 5}$

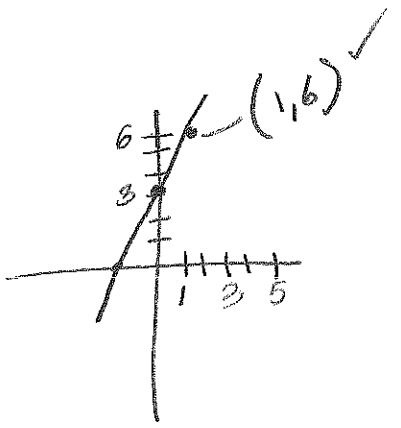
4) Find the equation of a line with slope $m = 3$ passing through the point $(1, 6)$.

$y = 3x + b$

$6 = 3(1) + b$

$\frac{6}{3} = \frac{3}{3} + \frac{b}{3}$

$3 = b$



$y =$ $\boxed{y = 3x + 3}$

5) Find the point where the lines with equations $y = 5x - 10$ and $y = -3x + 6$ cross.

$5x - 10 = -3x - 6$

$+10 \quad +10$

$5x = -3x + 4$

$+3x \quad +3x$

$\frac{8x}{8} = \frac{4}{8}$

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

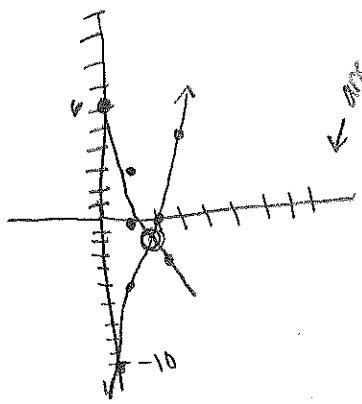
$y = 5(\frac{1}{2}) - 10$

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

$y = \frac{5}{2} - 10$ $(x, y) =$ $\boxed{(\frac{1}{2}, -\frac{15}{2})}$

$\frac{5}{2} - \frac{10}{1} \cdot \frac{2}{2}$

$\frac{5}{2} - \frac{20}{2} = -\frac{15}{2}$



Quiz 3

Name: Hidei Spanke **Perm Number:** 59585 25

1) Write the following fraction as a mixed number (that is, a whole number and a simplified fraction less than 1).

$$\frac{766}{12}$$

$6\frac{1}{3}$

63
12 | 766
-72
40
-36
4 — R

$\frac{4}{12} = \frac{2}{6} = \frac{1}{3}$

12 × 3 = 36

12 × 6 = 72 12 × 3 = 36

2) Substitute $x = kt + p$ into

$$x^2 - 2px + 7$$

Simplify the result as much as possible.

When you're done, write the result of this simplification here → $kt^2 - p^2 + 7$

$(kt+p)^2 - 2p(kt+p) + 7$

$(kt+p)(kt+p)$

$kt^2 + kpt + kpt + p^2 - 2pkt - 2p^2 + 7$

$kt^2 + 2kpt - p^2 + 7 - 2pk$

$(kt+p)(kt+p) - 2p(kt+p) + 7$

$kt^2 + pkt + pkt + p^2 - 2pkt - 2p^2 + 7$

$kt^2 + 2kpt - p^2 + 7$

3) Find the equation of a line with slope $m = 3$ and y-intercept $b = -5$.

$y = mx + b$

$y = 3x - 5$

$y =$ $3x - 5$

4) Find the equation of a line with slope $m = 3$ passing through the point $(1, 6)$.

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

$y - 6 = 3x - 3$

$y = 3x + 3$

$y =$ $3x + 3$

5) Find the point where the lines with equations $y = 5x - 10$ and $y = -3x + 6$ cross.

$5x - 10 = -3x + 6$

$8x = 16$

$x = 2$

$y = 0$

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

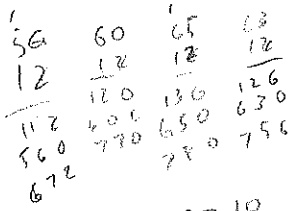
Quiz 3

Name: Kellen Beckett **Perm Number:** 479466-5

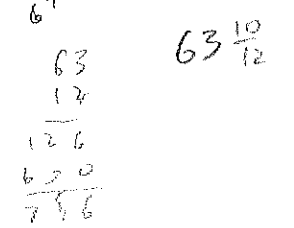
1) Write the following fraction as a mixed number (that is, a whole number and a simplified fraction less than 1).

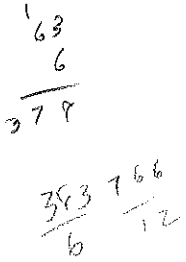
$$\frac{766}{12}$$

$63\frac{10}{12}$



$63\frac{5}{6}$





2) Substitute $x = kt + p$ into

$$x^2 - 2px + 7$$

Simplify the result as much as possible.

When you're done, write the result of this simplification here ⟶ $KT^2 - P^2 + 7$

$(KT+P)^2 - 2P(KT+P) + 7$

$KT^2 + P^2 - 2PKT - 2P^2 + 7$

$-2KPT - P^2 + KT^2 + 7$

$(KT+P)(KT+P)$

$KT^2 + KTP + KPT + P^2$

$-2KPT - 2P^2 + 7$

3) Find the equation of a line with slope $m = 3$ and y-intercept $b = -5$.

$y =$ $3x - 5$

4) Find the equation of a line with slope $m = 3$ passing through the point $(1, 6)$.

$6 = 3(1) + b$

$-3 \quad -3$

$3 = b$

$y =$ $3x + 3$

5) Find the point where the lines with equations $y = 5x - 10$ and $y = -3x + 6$ cross.

$-3x + 6 = 5x - 10$

$+3x \quad +10 \quad +3x + 10$

$\frac{16}{8} = \frac{8x}{8}$

$x = 2$

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

$y = 5(2) - 10$

$y = 0$

Quiz 3

Name: Colin Gallivan **Perm Number:** 5862735

1) Write the following fraction as a mixed number (that is, a whole number and a simplified fraction less than 1).

$$\frac{766}{12}$$

744
5
720 = 12·60

12
60
00
720
12
732
12
744
12
756

61

62

63
12
126
630
756

62
12
124
620
744

Answer: $63\frac{5}{6}$

$63\frac{10}{12} \Rightarrow 63\frac{5}{6}$

62
12
124
620
744
12
756 = 12·63

2) Substitute $x = kt + p$ into

$$x^2 - 2px + 7$$

Simplify the result as much as possible.

When you're done, write the result of this simplification here ⟶ $k^2t^2 - p^2 + 7$

$(kt+p)^2 - 2p(kt+p) + 7$

$(kt+p)(kt+p) - 2p(kt+p) + 7$

$(k^2t^2 + ktp + ktp + p^2) - 2ktp - 2p^2 + 7$

$k^2t^2 + 2ktp + p^2 - 2ktp - 2p^2 + 7$

$k^2t^2 - p^2 + 7$

3) Find the equation of a line with slope $m = 3$ and y-intercept $b = -5$.

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

$y = mx + b$

$y = 3x - 5$

$y =$ $3x - 5$

4) Find the equation of a line with slope $m = 3$ passing through the point $(1, 6)$.

$6 = 3(1) + b$

$6 = 3 + b$

$3 = b$

$y =$ $3x + 3$

5) Find the point where the lines with equations $y = 5x - 10$ and $y = -3x + 6$ cross.

$5x - 10 = -3x + 6$

$8x = 16$

$x = 2$

$y = 10 - 10 = 0$

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

Quiz 3

Name: Sean Andampour **Perm Number:** 6120505

1) Write the following fraction as a mixed number (that is, a whole number and a simplified fraction less than 1).

$$\frac{766}{12}$$

$$63\frac{10}{12} \rightarrow 63\frac{5}{6}$$

$$63\frac{5}{6}$$

2) Substitute $x = kt + p$ into

$$x^2 - 2px + 7$$

Simplify the result as much as possible.

When you're done, write the result of this simplification here ⟶ $kt^2 - p^2 + 7$

$(kt+p)^2 - 2p(kt+p) + 7$

$(kt+p)(kt+p)$

$kt^2 + ktp + ktp + p^2$

$kt^2 + 2ktp + p^2$

$-2p(kt+p)$

$-2ktp - 2p^2 + 7$

$kt^2 - p^2 + 7$

3) Find the equation of a line with slope $m = 3$ and y-intercept $b = -5$.

$y = mx + b$

$y = 3x - 5$

$y =$ $3x - 5$

4) Find the equation of a line with slope $m = 3$ passing through the point $(1, 6)$.

$x \quad y$

$y = 3(1) + b$

$y = 3 + b$

$y =$ $3 + b$

5) Find the point where the lines with equations $y = 5x - 10$ and $y = -3x + 6$ cross.

$y = 5x - 16$

$y = -3x + 6$

$y = 5(2) - 10$

$y = 10 - 10$

$0 = 5(2) - 10$

$0 = 10 - 10$

0 ✓

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

$-3x + 6 = 5x - 10$

$-6 \quad -6$

$\frac{-3x}{-3} = \frac{5x - 16}{-3}$

$x = 2$

$y = -3x = 5x - 16$

$-5x \quad +5x$

$-8x = -16$

Quiz 3

Name: Max Levin **Perm Number:** 4984886

1) Write the following fraction as a mixed number (that is, a whole number and a simplified fraction less than 1).

$$\frac{766}{12}$$

$63\frac{5}{6}$

2) Substitute $x = kt + p$ into

$$x^2 - 2px + 7$$

Simplify the result as much as possible.

When you're done, write the result of this simplification here → $kt^2 + ktp^2 - 2kpt + 7$

$(kt+p)^2 - 2p(kt+p) + 7$

$(kt+p)(kt+p)$

$kt^2 + ktp + ktp + p^2$

$-2kpt - 2p^2 + 7$

$kt^2 + ktp^2 + p^2 - 2kpt - 2p^2 + 7$

$kt^2 + ktp^2 - 2kpt + 7$

3) Find the equation of a line with slope $m = 3$ and y-intercept $b = -5$.

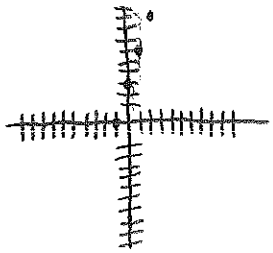
$y = mx + b$

$y = 3x - 5$

$y =$ $3x-5$

4) Find the equation of a line with slope $m = 3$ passing through the point $(1, 6)$.

$y = mx + b$



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

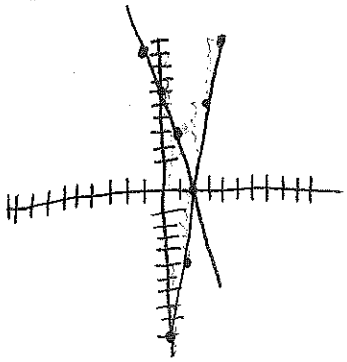
$y - 6 = 3x - 3$

$+6 \quad +6$

$y = 3x + 3$

$y =$ $3x+3$

5) Find the point where the lines with equations $y = 5x - 10$ and $y = -3x + 6$ cross.



$5x - 10 = -3x + 6$

$+3x \quad +3x$

$8x - 10 = 6$

$+10 \quad +10$

$8x = 16$

$x = 2$

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

$y = -3(2) + 6 = -6 + 6$

$y = 0$

Quiz 3

Name: Samantha Stevens **Perm Number:** 5113980

1) Write the following fraction as a mixed number (that is, a whole number and a simplified fraction less than 1).

$$\frac{766}{12}$$

$$12\overline{)766}\quad 63,\ 72,\ 46,\ -36,\ 10$$

$63\frac{10}{12}$ $63\frac{5}{6}$

$\frac{1}{12}\times\frac{6}{72}$

$63\ 5/6$

2) Substitute $x = kt + p$ into

$$x^2 - 2px + 7$$

Simplify the result as much as possible.

When you're done, write the result of this simplification here ⟶ $kt^2 - p^2 + 7$

$(kt+p)^2 - 2p(kt+p) + 7$

$(kt+p)(kt+p)$ $\quad -2p(kt+p)+7$

$kt^2 + ktp + ktp + p^2 \quad -2ktp - 2p^2 + 7$

$kt^2 + 2ktp + p^2 - 2ktp - 2p^2 + 7$

$kt^2 - p^2 + 7$

$(kt+p)(kt+p)$

$kt^2 + ktp + ktp + p^2$

$kt^2 + 2ktp + p^2$

$-2p(kt+p) = -2ktp - 2p^2$

$kt^2 + 2ktp + p^2 - 2ktp - 2p^2$

$kt^2 + p^2 - 2p = kt^2 - p^2 + 7$

3) Find the equation of a line with slope $m = 3$ and y-intercept $b = -5$.

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

$y =$ $3x - 5$

4) Find the equation of a line with slope $m = 3$ passing through the point $(1, 6)$.

$y = 3x + b$ $(1, 6)$

$6 = 3 + b$

$b = 3$

$y =$ $y = 3x + 3$

5) Find the point where the lines with equations $y = 5x - 10$ and $y = -3x + 6$ cross.

$5x - 10 = -3x + 6$

$8x = 16$

$x = 2$

$y = 5(2) - 10) = 0$

$y = -3(2) + 6 = 0$

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

$5(2) - 10 = -3(2) + 6$

$10 - 10 = -6 + 6$

$0 = 0$ ✓

Quiz 3

Name: Rebekka Kabel **Perm Number:** 5089769

12 × 7 = 84 12 × 6 = 72 12 × 3 = 36

12 × 9

1) Write the following fraction as a mixed number (that is, a whole number and a simplified fraction less than 1).

$$\frac{766}{12}$$

63 R10
12 | 766.0
−72
46
−36
10

$63\frac{10}{12} = 63\frac{5}{6}$

$63\frac{5}{6}$

12 × 8 = 96

12 × 63 = 36 + 720 = 756

63 × 12 = 126 + 630 = 756 ✓

756 + 10 = 766

2) Substitute $x = kt + p$ into

$$x^2 - 2px + 7$$

Simplify the result as much as possible.

When you're done, write the result of this simplification here ⟶ $k^2t^2 - p^2 + 7$

$x = kt + p$

$(kt + p)^2 - 2p(kt + p) + 7$

$(k^2t^2 + 2pkt + p^2) + (-2pkt - 2p^2) + 7$

$k^2t^2 - p^2 + 7$

	kt	p
kt	k^2t^2	pkt
p	pkt	p^2

3) Find the equation of a line with slope $m = 3$ and y-intercept $b = -5$.

$y = mx + b$

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

$-5 =$

num all info given

$y =$ $3x - 5$

4) Find the equation of a line with slope $m = 3$ passing through the point $(1, 6)$.

$y = mx + b$

$6 = (3)(1) + b$

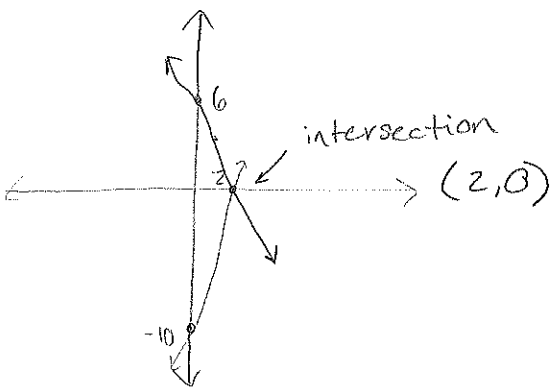
$6 = 3 + b$

$-3 \quad -3$

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

$y =$ $3x + 3$

5) Find the point where the lines with equations $y = 5x - 10$ and $y = -3x + 6$ cross.



$0 = 5x - 10$ $\quad$ $0 = -3x + 6$

$10 = 5x$ $\quad$ $-6 = -3x$

$2 = x$ $\quad$ $+2 = x$

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

Quiz 3

Name: Chloe Stewart **Perm Number:** 4521449

1) Write the following fraction as a mixed number (that is, a whole number and a simplified fraction less than 1).

$$\frac{766}{12}$$

$12\overline{)766}$ → 63 R 10

$63\frac{10}{12} = 63\frac{5}{6}$

$63\frac{5}{6}$

Check:

$2\overline{)766}$ → 383 R 0

$\frac{383}{2} = 191\frac{1}{2}$

$2\overline{)191}$ → 95 R 1

$\frac{328}{6} = \frac{199}{3}$

$3\overline{)199}$ → 66 R 1

2) Substitute $x = kt + p$ into

$$x^2 - 2px + 7$$

Simplify the result as much as possible.

When you're done, write the result of this simplification here → $kt^2 - p^2 + 7$

$(kt+p)^2 - 2p(kt+p) + 7$

$p^2 + kt^2 + 2ktp - 2ktp - 2p^2 + 7$

$(kt+p)(kt+p)$

$kt^2 + 2ktp + p^2$

$kt^2 - p^2 + 7$

Re/ Check:

$(kt+p)(kt+p)$

$kt^2 + ktp + ktp + p^2$

$kt^2 + 2ktp + p^2 - 2ktp - 2p^2 + 7$

(2ktp: cancel; 2ktp: cancel)

3) Find the equation of a line with slope $m = 3$ and y-intercept $b = -5$.

$y =$ $3x - 5$

4) Find the equation of a line with slope $m = 3$ passing through the point $(1, 6)$.

$y = mx + b$

$6 = (3)(1) + b$

$6 = 3 + b$

$-3 \quad -3$

$3 = b$

$y =$ $3x + 3$

$y = 3x + 3$

$6 = 3(1) + 3$

$6 = 3 + 3 \quad 6 = 6$ ✓

5) Find the point where the lines with equations $y = 5x - 10$ and $y = -3x + 6$ cross.

$5x - 10 = -3x + 6$

$+3x \quad +3x$

$8x - 10 = 6$

$+10 \quad +10$

$\frac{8x = 16}{8}$

$x = 2$

$(2, 0)$

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

$y = 5(2) - 10$

$y = 0$

$y = -3x + 6$

$0 = -3(2) + 6$

$0 = -6 + 6$

$0 = 0$ ✓

Quiz 3

Name: Natasha Gavriloff **Perm Number:** 677-311-3

1) Write the following fraction as a mixed number (that is, a whole number and a simplified fraction less than 1).

$$\frac{766}{12}$$

$$12\overline{)766} \quad 063$$

-72

46

-36

10

12

$63\frac{10}{12}$

$63\frac{5}{6}$

$63\ 5/6$

$$\begin{array}{r} {\scriptstyle 1} \\ 12 \\ \times\ 63 \\ \hline 36 \\ 720 \\ \hline 756 \\ +\ 10 \\ \hline 766 \end{array}$$ ✓

2) Substitute $x = kt + p$ into

$$x^2 - 2px + 7$$

Simplify the result as much as possible.

When you're done, write the result of this simplification here ⟶ $kt^2 + 3p^2 - 2pkt + 7$

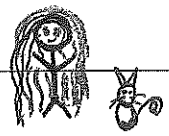
$x^2 - 2px + 7$

$(kt+p)^2 - 2p(kt+p) + 7$

$kt^2 + p^2 - 2pkt + 2p^2 + 7$

$kt^2 + 3p^2 - 2pkt + 7$

m = slope
b = y intercept



3) Find the equation of a line with slope $m = 3$ and y-intercept $b = -5$.

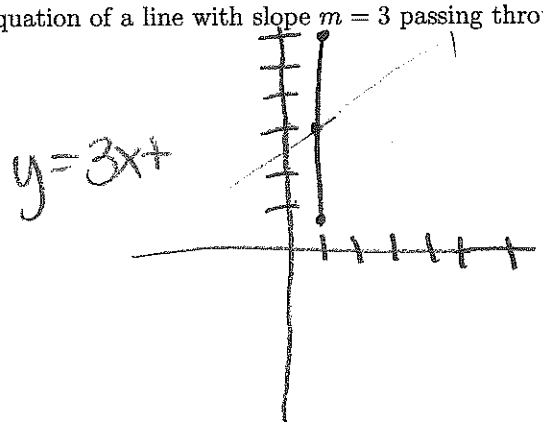
$y = 3x + -5$

$y =$ $3x + -5$

4) Find the equation of a line with slope $m = 3$ passing through the point $(1, 6)$.

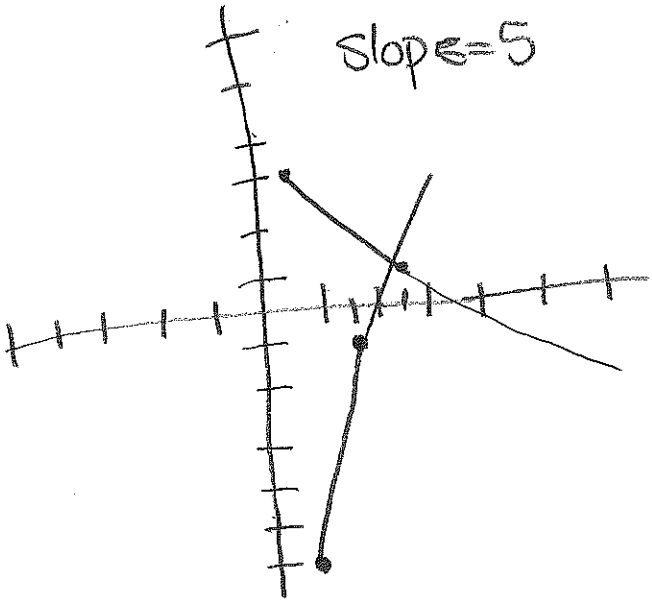
$\frac{6}{1} \cdot \frac{3}{1} = \frac{3}{1}$ y/x

(1, 3)



$y =$ $3x + 1$

5) Find the point where the lines with equations $y = 5x - 10$ and $y = -3x + 6$ cross.



$(x, y) =$ $(4, 2)$

Quiz 3

Name: Odalys Ordaz **Perm Number:** 6065536

1) Write the following fraction as a mixed number (that is, a whole number and a simplified fraction less than 1).

$$\frac{766}{12}$$

63 5/6

2) Substitute $x = kt + p$ into

$$x^2 - 2px + 7$$

Simplify the result as much as possible.

When you're done, write the result of this simplification here ⟶ $Kt^2+3p^2-2pkt+7$

$(Kt+p)^2-2p(Kt+p)+7$

$Kt^2+p^2-2pKt+2p^2+7$

$Kt^2+3p^2-2pkt+7$

3) Find the equation of a line with slope $m = 3$ and y-intercept $b = -5$.

$y = mx + b$ $\quad \frac{y^2 - y^1}{x^2 - x^1} = m$ $\quad (3, 0)\ (0, -5)$

$m = -\frac{5}{3}$ $\quad \frac{-5 - (-0)}{0 - 3} = \frac{5}{-3}$ $\quad y =$ $\boxed{-\frac{5}{3}x - 6\frac{2}{3}}$

$y = mx + b$ $\quad \div -$

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

$+5/3 \quad +5/3$

$-6\frac{2}{3} = b$ $\quad y = -\frac{5}{3}x - 6\frac{2}{3}$

4) Find the equation of a line with slope $m = 3$ passing through the point $(1, 6)$.

$(3, 0)\ (1, 6)$

$y = mx + b$ $\quad \frac{y^2 - y^1}{x^2 - x^1} = m$ $\quad y =$ $\boxed{3x + 3}$

$\frac{6 - 0}{1 - 3} = \frac{6}{-2} = 3$

$6 = 3(1) + b$ $\quad y = 3x + 3$

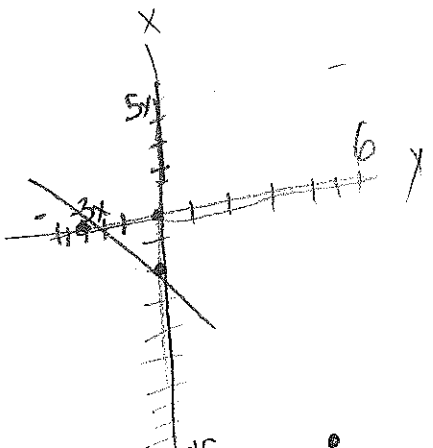
$6 = 3 + b$

$-3 \quad -3$ $\quad b = 3$

5) Find the point where the lines with equations $y = 5x - 10$ and $y = -3x + 6$ cross.

$y = 5x - 10$ $\quad y = -3x + 6$

$\frac{6 - (-10)}{-3 - 5} \quad \frac{16}{-8} = 2$ $\quad (x, y) =$ $\boxed{(2, 2)}$



$y = \quad -10$

$y =$

$\frac{y}{5} = \frac{5x}{5} - 10$ $\quad y = -3x + 6$

$-6 \quad -6$

$y - 6 = -3x$

$\frac{x + 10}{5} = \frac{5x}{5}$ $\quad x = 2$ $\quad y = 2$

Quiz 3

Name: Erick Castillo **Perm Number:** 5900857

1) Write the following fraction as a mixed number (that is, a whole number and a simplified fraction less than 1).

$$\frac{766}{12}$$

$63\frac{10}{12}$

63
12 | 766
-72
49
-36
10

12 72
24
36
48
60

63
×12
126
+630
756
+10
766

2) Substitute $x = kt + p$ into

$$x^2 - 2px + 7$$

Simplify the result as much as possible.

When you're done, write the result of this simplification here ⟶

$kt + p \quad (kt+p)^2 - 2p(kt+p) + 7$

$\frac{2}{kt+p} - 2p(kt+p)$

$\frac{2}{kt+p - 2pkt - 2p}$

3) Find the equation of a line with slope $m = 3$ and y-intercept $b = -5$.

$y =$ $3x - 5$

4) Find the equation of a line with slope $m = 3$ passing through the point $(1, 6)$.

$y =$ $3x + 3$

5) Find the point where the lines with equations $y = 5x - 10$ and $y = -3x + 6$ cross.

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

Quiz 3

Name: Zihu Zhu **Perm Number:** 5381462

1) Write the following fraction as a mixed number (that is, a whole number and a simplified fraction less than 1).

$$\frac{766}{12}$$

$63\frac{5}{6}$

2) Substitute $x = kt + p$ into

$$x^2 - 2px + 7$$

Simplify the result as much as possible.

When you're done, write the result of this simplification here ⟶ $k^2t^2 - p^2 + 7$

3) Find the equation of a line with slope $m = 3$ and y-intercept $b = -5$.

$y = mx + b$

$y =$ $3x - 5$

4) Find the equation of a line with slope $m = 3$ passing through the point $(1, 6)$.

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

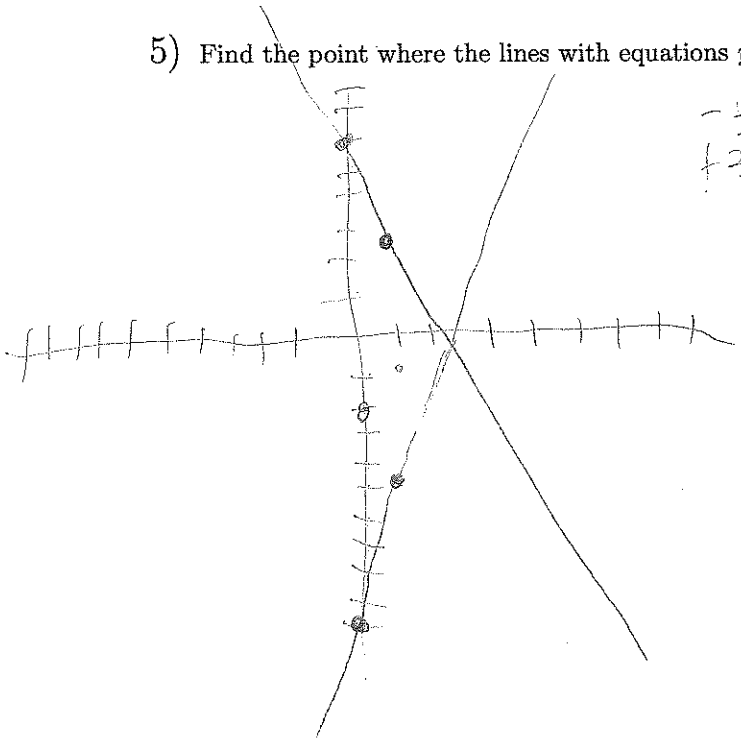
$y - 6 = 3x - 3$

$+6 \quad +6$

$y = 3x + 3$

$y =$ $3x + 3$

5) Find the point where the lines with equations $y = 5x - 10$ and $y = -3x + 6$ cross.



$-3x + 6 = 5x - 10$

$+3x \quad +10 \quad +3x \quad +10$

$\frac{16}{8} = \frac{8x}{8}$

$x = 2$

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

$y = 5(2) - 10$

$y = 0$

$y = -3(2) + 6$

$= 0$

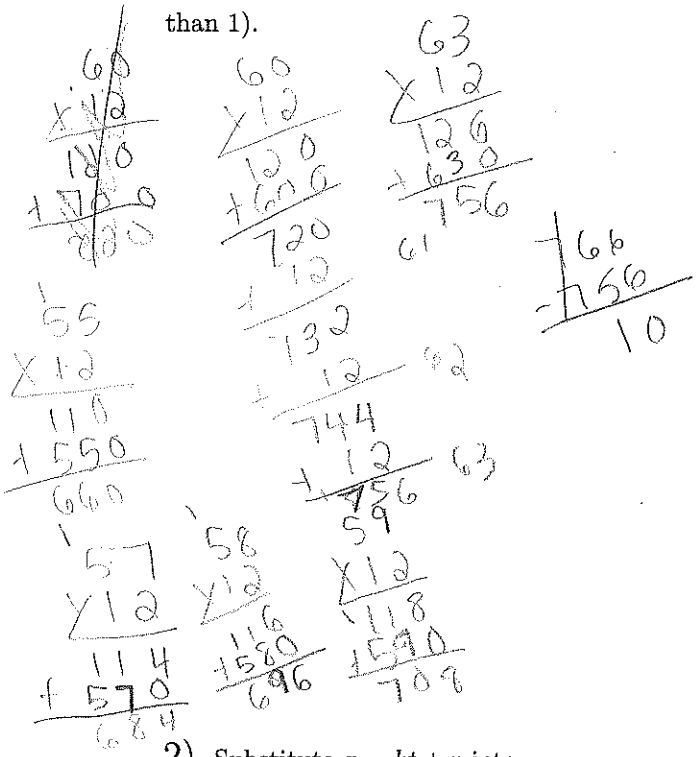
Quiz 3

Name: Katelyn Cole **Perm Number:** 9782947

1) Write the following fraction as a mixed number (that is, a whole number and a simplified fraction less than 1).

$$\frac{766}{12}$$

63 $\frac{10}{12}$



2) Substitute $x = kt + p$ into

$$x^2 - 2px + 7$$

Simplify the result as much as possible.

When you're done, write the result of this simplification here ⟶ $kt^2 - p^2 + 7$

$$(kt+p)^2 - 2p(kt+p) + 7$$

$$(kt+p)(kt+p)$$

$$kt^2 + ktp + ktp + p^2$$

$$kt^2 + 2ktp + p^2 - 2ktp - 2p^2 + 7$$

$$kt^2 - p^2 + 7$$

3) Find the equation of a line with slope $m = 3$ and y-intercept $b = -5$.

$m=3-5$

$3x-5$

$y =$ $3x-5$

4) Find the equation of a line with slope $m = 3$ passing through the point $(1, 6)$.

$3 \quad \frac{3}{1} \quad \frac{y}{x} \quad 1,6 \quad 0,3$

$y =$ $3x+3$

$3x+3$

5) Find the point where the lines with equations $y = 5x - 10$ and $y = -3x + 6$ cross.

$y=5x-10$ $y=5(2)-10=0$

$y=-3x+6$ $y=-3(2)+6=0$

$y=-6+6$

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

$5x-10=-3x+6$

$5x=16-3x$

$\frac{8x=16}{8}$ $x=2$

Quiz 3

Name: Sebastian Avila **Perm Number:** 5976220

1) Write the following fraction as a mixed number (that is, a whole number and a simplified fraction less than 1).

$$\frac{766}{12}$$

$62\frac{2}{12}$

$62\frac{1}{6}$

$62\frac{1}{6}$

2) Substitute $x = kt + p$ into

$$x^2 - 2px + 7$$

Simplify the result as much as possible.

When you're done, write the result of this simplification here ⟶ $2ktk^2p^2 - p^2 + 7$

PEMDAS

$x = kt + p$

$(kt+p)^2 - 2p(kt+p) + 7$

$-2pkt + p^2 + 7$

$(kt+p)(kt+p)$

$k\ pkt\ p^2$

$2pkt\ 2kt^2$

$2pkt\ k^2t^2$

$2pkt\ p^2$

$-2p(kt+p)$

kt

$\times kt$

$kt\ t^2$

$-k^2kt$

$k^2\ 2kt\ t^2$

$(kt)^2\ (kt)(kt)\ -p^2$

$(2x)(2x)$

$4+2x+2x+x^2$

$4+4x+x^2$

$2kt\ k^2t^2\ +2pkt\ +p^2\ -2pkt\ -2p^2$

3) Find the equation of a line with slope $m = 3$ and y-intercept $b = -5$.

$y = 3x - 5$

$y =$ $3x - 5$

4) Find the equation of a line with slope $m = 3$ passing through the point $(1, 6)$.

$y = 3x + b$

$6 = 3(1) + b$

$6 = 3 + b$

$3 = b$

$y = 3x + 3$

$6 = 3(1) + 3$ ✓

$y =$ $3x + 3$

5) Find the point where the lines with equations $y = 5x - 10$ and $y = -3x + 6$ cross.

$5x - 10 = -3x + 6$

$8x = 16$

$x = 2$

$y = 5(2) - 10$

$y = 10 - 10$

$y = 0$

$y = -3(2) + 6$

$y = -6 + 6$

$y = 0$

$0 = 5(2) - 10$

$0 = 10 - 10$ ✓

$0 = -3(2) + 6$ ✓

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

Quiz 3

Name: Annalise Evans **Perm Number:** 5301023

1) Write the following fraction as a mixed number (that is, a whole number and a simplified fraction less than 1).

$$\frac{766}{12}$$

$63\frac{5}{6}$

2) Substitute $x = kt + p$ into

$$x^2 - 2px + 7$$

Simplify the result as much as possible.

When you're done, write the result of this simplification here ⟶ $k^2t^2 - p^2 + 7$

$(kt+p)^2 - 2p(kt+p) + 7$

$(kt+p)(kt+p) - 2pkt - 2p^2 + 7$

$k^2t^2 + ktp + ktp + p^2 - 2pkt - 2p^2 + 7$

$k^2t^2 - p^2 + 7$

3) Find the equation of a line with slope $m = 3$ and y-intercept $b = -5$.

$y = mx + b$

$y = 3x - 5$

$y =$ $3x - 5$

4) Find the equation of a line with slope $m = 3$ passing through the point $(1, 6)$.

$y = 3x + b$

$6 = 3(1) + b$

$b = 3$

$y = 3x + 3$

$y =$ $3x + 3$

5) Find the point where the lines with equations $y = 5x - 10$ and $y = -3x + 6$ cross.

$5x - 10 = -3x + 6$

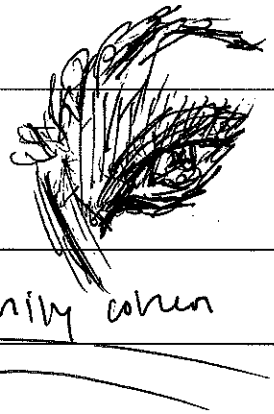
$8x = 16$

$x = 2$

$y = 5(2) - 10$

$y = 0$

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



Quiz 3

Name: Emily Cohen **Perm Number:** 5622949

1) Write the following fraction as a mixed number (that is, a whole number and a simplified fraction less than 1).

$$\frac{766}{12}$$

12 × 53 = 36 + 600 = 636

12 × 60 = 720

12 × 62 = 24 + 720 = 744

744 + 12 = 756

$\frac{12}{12}$

$63\frac{10}{12}$

63 × 12 = 126 + 630 = 756

$63\frac{5}{6}$

2) Substitute $x = kt + p$ into

$$x^2 - 2px + 7$$

Simplify the result as much as possible.

When you're done, write the result of this simplification here ⟶ $kt^2 - p^2 + 7$

$$(kt+p)^2 - 2p(kt+p) + 7$$

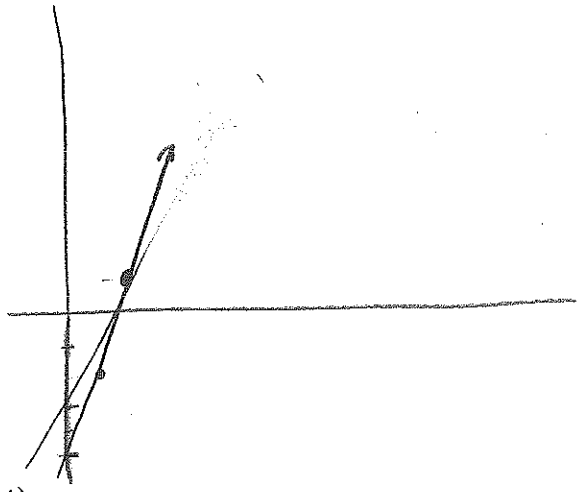
$$kt^2 + 2ktp + p^2 - 2pkt - 2p^2 + 7$$

$$kt^2 + p^2 - 2p^2 + 7$$

$$kt^2 - p^2 + 7$$

3) Find the equation of a line with slope $m = 3$ and y-intercept $b = -5$.

$y = 3x - 5$



$y =$ $\boxed{3x - 5}$

4) Find the equation of a line with slope $m = 3$ passing through the point $(1, 6)$.

$x \quad y$

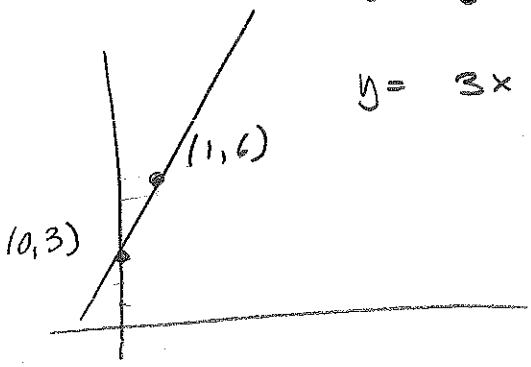
$y = 3x + b$

$6 = 3 + b$

$b = 3$

$y = 3x + 3$

$y =$ $\boxed{y = 3x + 3}$



5) Find the point where the lines with equations $y = 5x - 10$ and $y = -3x + 6$ cross.

$y = 5x - 10 \quad = -3x + 6$

$+3x \qquad +3x$

$8x - 10 = 6$

$+10 \qquad +10$

$\frac{8x}{8} = \frac{16}{8}$

$x = 2$

$5x - 10 = -3x + 6$

$8x - 10 = 6$

$\frac{8x}{8} = \frac{16}{8}$

$x = 2$

$(x, y) =$ $\boxed{(2, 0)}$

$y = 5(2) - 10$

$y = 0$ ✓

↘ check $y = -3(2) + 6$

$y = -6 + 6$

$y = 0$ ✓

Quiz 3

Name: Octavia Hoffman **Perm Number:** 6625370

60 · 12 = 720
61 732
62 744
63 · 12 = 756

63 · 12 = 756
$ has 10 left over → 10/12 = 5/6

63 5/6

1) Write the following fraction as a mixed number (that is, a whole number and a simplified fraction less than 1).

$$\frac{766}{12}$$

10 = 120 +120
20 = 240 +120
30 = 360 +120
40 = 480 +120
50 = 600 +120
60 = 720 +12
61 = 732 +12
62 = 744 +12
63 = 756

10
756 → 766

$$\frac{10}{12} = \frac{5}{6}$$

$$63\frac{5}{6}$$

2) Substitute $x = kt + p$ into

$$x^2 - 2px + 7$$

Simplify the result as much as possible.

When you're done, write the result of this simplification here → $kt^2 + 7 - p^2$

x = kt + p into

x = kt + p into $x^2 - 2px + 7$

$(kt+p)^2 - 2p(kt+p) + 7$

$(kt+p)(kt+p) - 2p(kt+p) + 7$

$(kt^2 + ktp + ktp + p^2) - (2pkt + 2p^2) + 7$

distribute the minus

$kt^2 + 2ktp + p^2 - 2ktp - 2p^2 + 7$

$kt^2 + 7 - p^2$

3) Find the equation of a line with slope $m = 3$ and y-intercept $b = -5$.

$b = (-5, 0)$

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

$y = 3x + 15$

$y =$ $3x + 15$

4) Find the equation of a line with slope $m = 3$ passing through the point $(1, 6)$.

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

$y - 6 = 3x - 3$

$+6 \quad +6$

$y = 3x + 3$

$y =$ $3x + 3$

5) Find the point where the lines with equations $y = 5x - 10$ and $y = -3x + 6$ cross.

$5x - 10 = -3x + 6$

$+3x + 10 \quad +3x + 10$

$\frac{8x}{8} = \frac{16}{8}$

$x = 2$

Both cross @ $(2, 0)$

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

Quiz 3

Name: Stephane Mita **Perm Number:** 8038481

1) Write the following fraction as a mixed number (that is, a whole number and a simplified fraction less than 1).

$$\frac{766}{12}$$

$63\frac{5}{6}$

$12 \times 6 = 72$

$12 \times 3 = 36$

$63 \times 12 = 126 + 630 = 756$

$766 - 756 = 10$

$63\frac{10}{12} \rightarrow 63\frac{5}{6}$ $\quad \frac{10}{12} = \frac{5}{6}$

2) Substitute $x = kt + p$ into

$$x^2 - 2px + 7$$

Simplify the result as much as possible.

When you're done, write the result of this simplification here ⟶ $k^2t^2 - p^2 + 7$

$$(kt+p)^2 - 2p(kt+p) + 7$$

$$(kt+p)(kt+p)$$

$$k^2t^2 + ktp + ktp + p^2 - 2ktp - 2p^2 + 7$$

$$k^2t^2 + 2ktp + p^2 - 2ktp - 2p^2 + 7$$

$$k^2t^2 - p^2 + 7$$

3) Find the equation of a line with slope $m = 3$ and y-intercept $b = -5$.

$y = mx + b$

$y = 3x - 5$

$y =$ $3x - 5$

4) Find the equation of a line with slope $m = 3$ passing through the point $(1, 6)$.

$y = 3x + b$

$6 = 3(1) + b$

$6 = 3 + b$

$3 = b$

$y = 3x + 3$

$y =$ $3x + 3$

5) Find the point where the lines with equations $y = 5x - 10$ and $y = -3x + 6$ cross.

$y = 5x - 10$

$y = -3x + 6$

$-y \quad +y$

$0 = 5x - 10 = -3x + 6$

$+3x \quad +3x$

$8x - 10 = 6$

$+10 \quad +10$

$\frac{8x}{8} = \frac{16}{8}$

$x = 2$

$y = 5(2) - 10$

$y = 0$ (?)

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

Quiz 3

Name: Zach. Jasmine Moody **Perm Number:** 4564134

1) Write the following fraction as a mixed number (that is, a whole number and a simplified fraction less than 1).

$$\frac{766}{12}$$

12 × 5 = 60, 60 + 12 = 72

63 R 10 → $63\frac{10}{12}$ → $63\frac{5}{6}$

$63\frac{5}{6}$

2) Substitute $x = kt + p$ into $x^2 - 2px + 7$

Simplify the result as much as possible.

When you're done, write the result of this simplification here → $kt^2 - 2pkt + 3p^2 + 7$

$(kt+p)^2 - 2p(kt+p) + 7$

$(kt+p)^2 - 2pkt + 2p^2 + 7$

$kt^2 + p^2 - 2pkt + 2p^2 + 7$

$kt^2 + (-2pkt) + 3p^2 + 7$

$(kt+p)^2 - 2(p(kt+p)) + 7$

$kt^2 + p^2 - 2(pkt + p^2) + 7$

$kt^2 + p^2 - 2pkt + 2p^2 + 7$

$kt^2 - 2pkt + 3p^2 + 7$

3) Find the equation of a line with slope $m = 3$ and y-intercept $b = -5$.

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

$y =$ $3x - 5$

4) Find the equation of a line with slope $m = 3$ passing through the point $(1, 6)$.

$(1, 6)$
$6 = 3(1) + b$
$6 = 3 + b$
$-3 \quad -3$
$3 = b$

$y =$ $3x + 3$

5) Find the point where the lines with equations $y = 5x - 10$ and $y = -3x + 6$ cross.

$(x, y) =$

Quiz 3

Name: Alicia Cabey **Perm Number:** 6066030-2

1) Write the following fraction as a mixed number (that is, a whole number and a simplified fraction less than 1).

$$\frac{766}{12}$$

$$63\frac{83}{100}$$

$63\frac{83}{100}$

2) Substitute $x = kt + p$ into

$$x^2 - 2px + 7$$

Simplify the result as much as possible.

When you're done, write the result of this simplification here → $kt^2 - p^2 + 7$

$(kt+p)^2 - 2p(kt+p) + 7$

$(kt+p)^2 - 2pkt - 2p^2 + 7$

$kt^2 + 2ktp + p^2 - 2pkt - 2p^2 + 7$

$kt^2 + p^2 - 2p^2 + 7$

$kt^2 - p^2 + 7$

$(kt+p)(kt+p)$

$kt^2 + ktp + ktp + p^2$

$kt^2 + 2ktp + p^2$

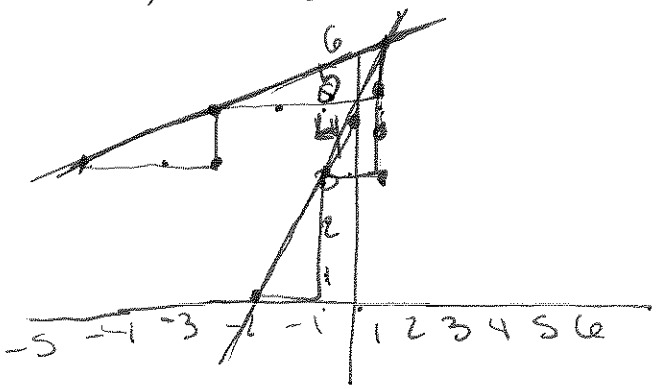
3) Find the equation of a line with slope $m = 3$ and y-intercept $b = -5$.

$y = mx + b$

$y = 3x - 5$

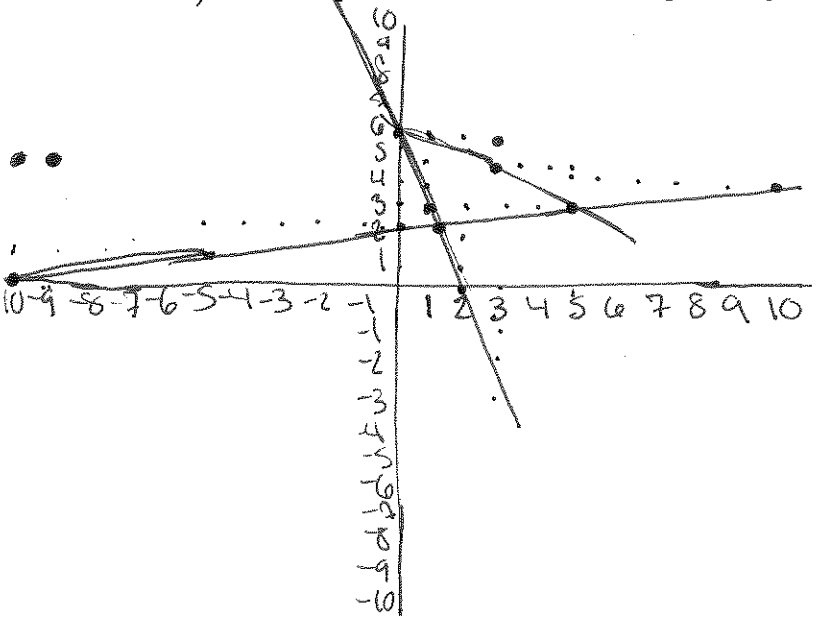
$y =$ $\boxed{3x-5}$

4) Find the equation of a line with slope $m = 3$ passing through the point $(1, 6)$.



$y =$ $\boxed{\text{3x+3 or } 3x+5?}$

5) Find the point where the lines with equations $y = 5x - 10$ and $y = -3x + 6$ cross.



$(x, y) =$ $\boxed{(5, 4)}$

Quiz 3

Name: Nat Alvarez **Perm Number:** 8622337

1) Write the following fraction as a mixed number (that is, a whole number and a simplified fraction less than 1).

$$\frac{766}{12}$$

63
12|766
-72
46
-36
10

63 5/6

2) Substitute $x = kt + p$ into

$$x^2 - 2px + 7$$

Simplify the result as much as possible.

When you're done, write the result of this simplification here

$x = kt + p$

$x^2 - 2px + 7 = 0$

$-7 \quad -7$

$x^2 - 2px = -7$

3) Find the equation of a line with slope $m = 3$ and y-intercept $b = -5$.

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

$y =$ $3x - 5$

4) Find the equation of a line with slope $m = 3$ passing through the point $(1, 6)$.

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

$y =$ $3x + 3$

5) Find the point where the lines with equations $y = 5x - 10$ and $y = -3x + 6$ cross.

$y = 5x - 10$ $y = -3x + 6$

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

$5x - 10 = -3x + 6$

$+3x$ $+10$

$\frac{8x}{8} = \frac{16}{8}$

$x = 2$

$y = 5(2) - 10$

$10 - 10$

$y = 0$

$y = -3(2)$

$-6 + 6$

Quiz 3

Name: Brandy Rodriguez **Perm Number:** 6565634

1) Write the following fraction as a mixed number (that is, a whole number and a simplified fraction less than 1).

$$\frac{766}{12}$$

$$12\overline{)766}\quad 63 \quad 72 \quad 46$$

$63\frac{5}{6}$

$63 \times 12 = 126 + 630 = 756$

$63 \times 6 + 5 = 378 + 5 = 383$

$\frac{10}{12} \quad \frac{5}{6}$

2) Substitute $x = kt + p$ into

$$x^2 - 2px + 7$$

Simplify the result as much as possible.

When you're done, write the result of this simplification here ⟶ $kt^2 - p^2 + 7$

$(kt+p)^2 - 2p(kt+p) + 7$

$(kt+p)(kt+p) - 2pkt - 2p^2 + 7$

$kt^2 + pkt + pkt + p^2 - 2pkt - 2p^2 + 7$

$kt^2 + 2pkt$

$kt^2 - p^2 + 7$

3) Find the equation of a line with slope $m = 3$ and y-intercept $b = -5$.

$mx+b$

$3x+-$

$3x-5$

$y =$ $3x-5$

4) Find the equation of a line with slope $m = 3$ passing through the point $(1, 6)$.

$y = 3x+b$ $(1,6)$ $x\ y$

$6 = 3(1)+b$

$6 = 3+b$

-3

$3 = b$

$y = 3x+3$

$y =$ $3x+3$

5) Find the point where the lines with equations $y = 5x - 10$ and $y = -3x + 6$ cross.

$y = 5x-10$ $-3\left(\frac{x+10}{5}\right)+6 = y$

$y = -3x+6$

$y = 5x-10$ $\frac{-3x-30}{5}+6$

$x = 5y-10$

$+10$ $-3x-6+6$

$\frac{x+10}{5} = \frac{5y}{5}$

$y = 5x-10$

$\frac{y+10}{5} = x$

$-3x = y$

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

Quiz 3

Name: Nissa Aguinaga **Perm Number:** 6646624

1) Write the following fraction as a mixed number (that is, a whole number and a simplified fraction less than 1).

$$\frac{766}{12}$$

$63\frac{5}{6}$

2) Substitute $x = kt + p$ into

$$x^2 - 2px + 7$$

Simplify the result as much as possible.

When you're done, write the result of this simplification here → $kt^2+2ktp-p^2-2pk+2pt+7$

$kt^2+2ktp+3p^2+2pk+2pt+7$

$kt^2+2ktp-p^2-2pk+2pt+2p^2+7$

$kt^2+2ktp-p^2-2pk+2pt+7$