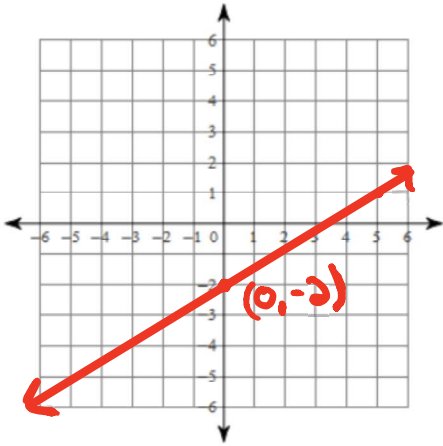


Transversals – Equations of Lines in the Coordinate Plane

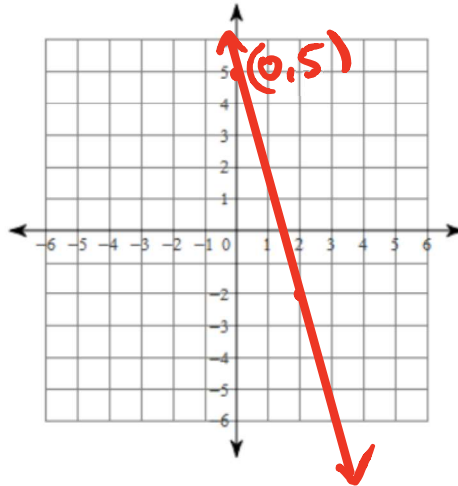
Hw Section 3.5

Name _____

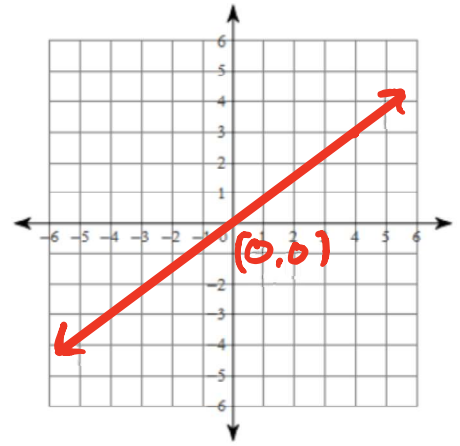
1) $y = \frac{3}{5}x - 2$



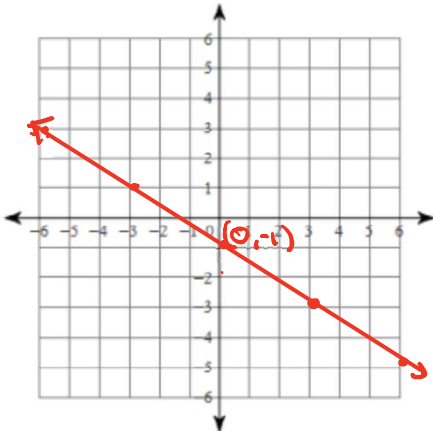
2) $y = -7x + 5$



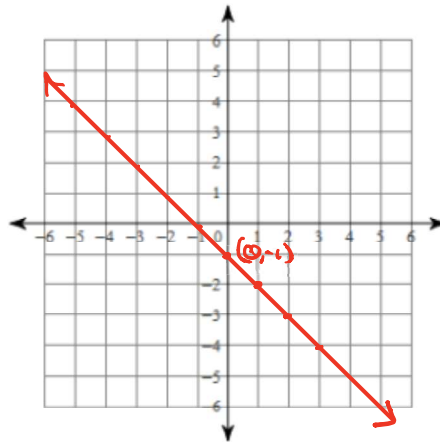
3) $y = \frac{3}{4}x$



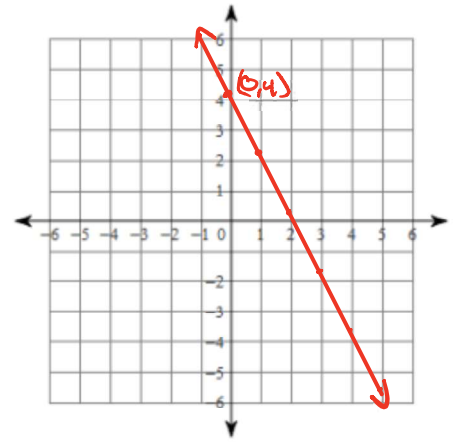
4) $y = -\frac{2}{3}x - 1$



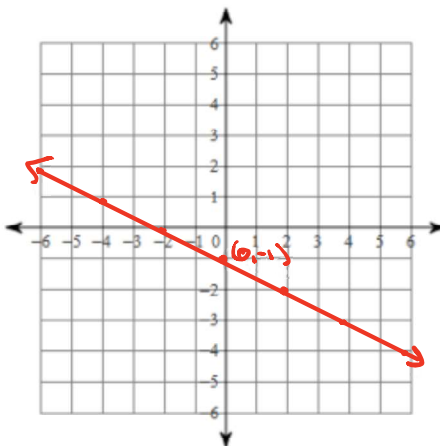
5) $y = -x - 1$



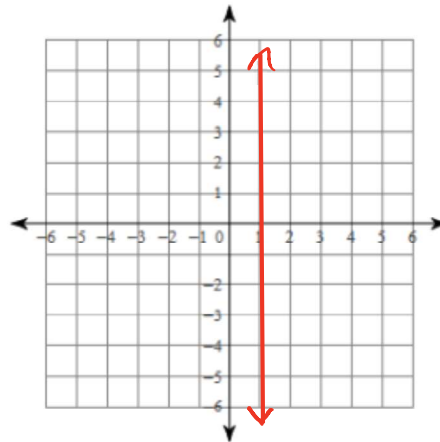
6) $y = -2x + 4$



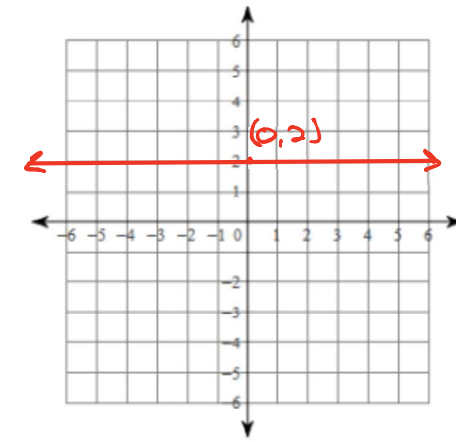
7) $y = -\frac{1}{2}x - 1$



8) $x = 1$



9) $y = 2$



Algebra Review

Solve: $-24 = 8 - 4k$

$$\begin{aligned} -32 &= -4k \\ 8 &= k \end{aligned}$$

Solve: $12j + 15 = -13j - 35$

$$\begin{aligned} 25j + 15 &= -35 \\ 25j &= -50 \\ j &= -2 \end{aligned}$$

Multiply: $-5g(5g - 7)$

$$= -25g^2 + 35g$$

Transversals – Equations of Lines in the Coordinate Plane

Hw Section 3.5

Name _____

Directions: Write the equation of a line with the given information.

10) Slope = $\frac{7}{3}$, y-intercept = -3

Point (0, -3) Slope $m = \frac{7}{3}$ Point-Slope form
 $y - y_1 = m(x - x_1)$
 $y + 3 = \frac{7}{3}(x - 0)$

11) through: (0, -1), slope = $\frac{1}{2}$
 Point \nearrow slope \curvearrowright

Point-Slope form
 $y - y_1 = m(x - x_1)$
 $y + 1 = \frac{1}{2}(x - 0)$

12) through: (4, 3), slope = 2

Point-Slope
 $y - y_1 = m(x - x_1)$
 $y - 3 = 2(x - 4)$

13) through: (3, 4) and (5, -2)

<u>Point</u> (3, 4)	<u>Slope</u> $m = \frac{\Delta y}{\Delta x}$ $= \frac{(4) - (-2)}{(3) - (5)}$ $= \frac{6}{-2}$ $= -3$	<u>Point-Slope</u> $y - y_1 = m(x - x_1)$ $y - 4 = -3(x - 3)$
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14) through: (3, 3) and (2, -4)

<u>Point</u> (3, 3)	<u>Slope</u> $m = \frac{\Delta y}{\Delta x}$ $= \frac{(3) - (-4)}{(3) - (2)}$ $= \frac{7}{1}$ $m = 7$	<u>Point-Slope</u> $y - y_1 = m(x - x_1)$ $y - 3 = 7(x - 3)$
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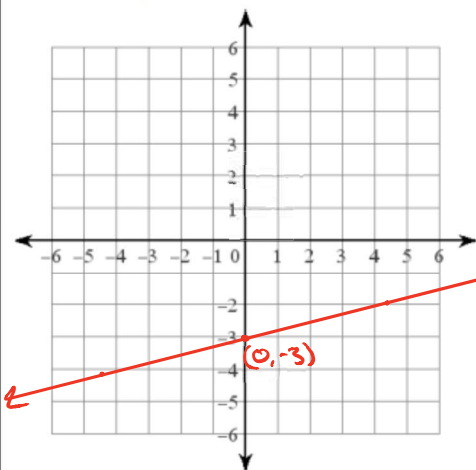
15) through: (-2, 3) and (0, 2)

<u>Point</u> (0, 2)	<u>Slope</u> $m = \frac{\Delta y}{\Delta x}$ $= \frac{(3) - (2)}{(-2) - (0)}$ $m = \frac{1}{-2}$	<u>Point-Slope form</u> $y - y_1 = m(x - x_1)$ $y - 2 = -\frac{1}{2}(x - 0)$
------------------------	---	--

Factor: $36h^5 + 27h^4$

$= 9h^4(4h + 3)$

Graph: $y = \frac{1}{4}x - 3$



Graph: $y = -x$

