

Weekly HW Check Today...Make sure all of these pages are in order!

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|---------------------------------------|--------------------------------------|
| 1) Scientific Notation ~Day 1 | 6) Slope from a graph |
| 2) Scientific Notation ~ Day 2 | 7) Slope from 2 points |
| 3) Q1 Cumulative Review | 8) Slope from a table |
| 4) Unit Rate | 9) Slope-Intercept Form (6-2) |
| 5) Types of Slope | 10) Cumulative review |

****you have 5 minutes to look at my website if you need to get these in order****

Calculate and graph using x- and y-intercepts

x-intercept: The point where a line crosses the x-axis

Ex. 1) $y = 2x - 2$

1. set $y = 0$

2. rewrite the equation;

$$0 = 2x - 2$$

3. solve for x

$$0 = 2x - 2$$

$$0 + 2 = 2x - 2 + 2$$

$$2 = 2x$$

$$2/2 = 2x/2$$

$$1 = x$$

The x-intercept = 1

ordered pair (1, 0)

y-intercept: The point where a line crosses the y-axis

Ex. 2) $y = 2x - 2$

1. set $x = 0$
2. rewrite the equation; $y = 2(0) - 2$
3. solve for y
 $y = 2(0) - 2$
 $y = 0 - 2$
 $y = -2$
The y-intercept = -2
ordered pair $(0, -2)$

Try These

Find the x- and y- intercept

1) $x + y = 7$

2) $x - 3y = 9$

3) $2x + 3y = -6$

$$\begin{aligned} 1) \quad & x + y = 7 \\ & \text{x-int., let } y = 0 \\ & x + y = 7 \\ & x + 0 = 7 \\ & x = 7 \\ & (7, 0) \end{aligned}$$

$$\begin{aligned} & \text{y-int., let } x = 0 \\ & x + y = 7 \\ & 0 + y = 7 \\ & y = 7 \\ & (0, 7) \end{aligned}$$

$$\begin{aligned} 2) \quad & x - 3y = 9 \\ & \text{x-int., let } y = 0 \\ & x - 3y = 9 \\ & x - 3(0) = 9 \\ & x - 0 = 9 \\ & x = 9 \\ & (9, 0) \end{aligned}$$

$$\begin{aligned} & \text{y-int., let } x = 0 \\ & x - 3y = 9 \\ & 0 - 3y = 9 \\ & -3y = 9 \\ & y = -3 \\ & (0, -3) \end{aligned}$$

$$\begin{aligned} 3) \quad & 2x + 3y = -6 \\ & \text{x-int., let } y = 0 \\ & 2x + 3y = -6 \\ & 2x + 3(0) = -6 \\ & 2x + 0 = -6 \\ & 2x = -6 \\ & x = -3 \\ & (-3, 0) \end{aligned}$$

$$\begin{aligned} & \text{y-int., let } x = 0 \\ & 2x + 3y = -6 \\ & 2(0) + 3y = -6 \\ & 0 + 3y = -6 \\ & 3y = -6 \\ & y = -2 \\ & (0, -2) \end{aligned}$$