Algebra 1 ECA Remediation Name Answer Key

Homework 10.3

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Find the slope, x-intercept, and y-intercept of the following.

1) $4x - 5y = 5$

x	y
0	-1
$\frac{5}{4}$	0

$4(0) - 5y = 5$

$\frac{-5y}{-5} = \frac{5}{-5}$

$\boxed{y = -1}$

$4x - 5(0) = 5$

$\frac{4x}{4} = \frac{5}{4}$

$\boxed{x = \frac{5}{4}}$

$4x - 5y = 5$

$-4x \quad -4x$

$-5y = -4x + 5$

$\frac{-5y}{-5} = \frac{-4x}{-5} + \frac{5}{-5}$

$y = \frac{4}{5}x - 1$

$\boxed{m = \frac{4}{5}}$

2) $x - y = 2$

x	y
0	-2
2	0

$0 - y = 2$

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

$\boxed{y = -2}$

$x - 0 = 2$

$\boxed{x = 2}$

$x - y = 2$

$-x \quad -x$

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

$y = x - 2$

$\boxed{m = 1}$

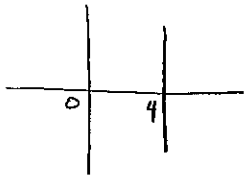
Name the x- and y-intercepts.

3) $x = 4$ Vertical Lines

no slope

x-intercept (4,0)

no y-intercept

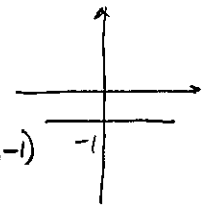


4) $y = -1$ Horizontal Lines

Slope = 0

no x-intercept

y-intercept → (0,-1)



Determine the y-intercept of each graph.

5) $-x - y - 1 = 0$

$x = 0$

$-(0) - y - 1 = 0$

$-y - 1 = 0$

$+1 \quad +1$

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

$y = -1$

or

$\boxed{b = -1}$

6) $5 - y = 2x$

$\boxed{b = 5}$

$x = 0$

$5 - y = 2(0)$

$5 - y = 0$

$+y \quad +y$

$5 = y$

Solve each equation for the indicated variable.

7) $4x + abc = 11z$, solve for x

$4x + abc = 11z$

$-abc \quad -abc$

$\frac{4x}{4} = \frac{11z - abc}{4}$

$\boxed{x = \frac{11z - abc}{4}}$

8) $A = xyz$, solve for z

$\frac{A}{xy} = \frac{xyz}{xy}$

$\boxed{\frac{A}{xy} = z}$

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Answers to Homework 10.3

1) m = $\frac{4}{5}$, b = -1, x – int = $\frac{5}{4}$ 2) m = 1, b = -2, x – int = 2 3) x - int = 4, no y - int

4) no x - int, y- int = -1 5) b = -1 6) b = 5 7) $x = \frac{11z - abc}{4}$ 8) $\frac{A}{xy} = z$