Algebra 1 ECA Remediation Name Answer Key

Homework 11.2

Write the slope-intercept form of the equation of the line through the given point with the given slope.

1) through: $(4, 4)$, slope $= 1$

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

$y - 4 = x - 4$

$+4 \quad +4$

$y = x$

2) through: $(-2, 5)$, slope $= -5$

$y - 5 = -5(x + 2)$

$y - 5 = -5x - 10$

$+5 \quad +5$

$y = -5x - 5$

3) through: $(1, -3)$, slope $= 2$

$y + +3 = 2(x - 1)$

$y + 3 = 2x - 2$

$-3 \quad -3$

$y = 2x - 5$

Write the slope-intercept form of the equation of the line through the given points.

4) through: $(2, 4)$ and $(0, -2)$

$m = \frac{4 + +2}{2 - 0} = \frac{6}{2} = \frac{3}{1}$

$y - 4 = 3(x - 2)$ $\quad y = 3x - 2$

$y - 4 = 3x - 6$

$+4 \quad +4$

5) through: $(-1, 3)$ and $(0, -1)$

$m = \frac{3 + +1}{-1 - 0} = \frac{4}{-1} = -4$

$y - 3 = -4(x + +1)$

$y - 3 = -4x - 4$

$+3 \quad +3$

$y = -4x - 1$

6) through: $(-1, -4)$ and $(0, 5)$

$m = \frac{-4 - 5}{-1 - 0} = \frac{-9}{-1} = 9$

$y + +4 = 9(x + +1)$

$y + 4 = 9x + 9$

$y + 4 = 9x + 9$

$-4 \quad -4$

$y = 9x + 5$

Solve each equation.

7) $-156.06 = -5.1(0.9 + 5.5p)$

$-156.06 = -4.59 - 28.05p$

$+4.59 \quad +4.59$

$\frac{-151.47}{-28.05} = \frac{-28.05p}{-28.05}$

$5.4 = p$

8) $1.7(-7.4x + 1.3) = 90.27$

$-12.58x + 2.21 = 90.27$

$-2.21 \quad -2.21$

$\frac{-12.58x}{-12.58} = \frac{88.06}{-12.58}$

$x = -7$

Answers to Homework 11.2

1) $y = x$
2) $y = -5x - 5$
3) $y = 2x - 5$
4) $y = 3x - 2$
5) $y = -4x - 1$
6) $y = 9x + 5$
7) $\{5.4\}$
8) $\{-7\}$