8th Grade Algebra 1

Name Key

Review Lesson 5-5

Write the slope-intercept form of the equation of the line described.

1) through: $(5, 5)$, parallel to $y = \frac{2}{5}x$

$y = \frac{2}{5}x + 3$

2) through: $(1, -5)$, parallel to $y = -6x - 3$

$y = -6x + 1$

3) through: $(-4, 3)$, parallel to $y = -x$

$y = -x - 1$

4) through: $(-2, 5)$, parallel to $y = -x + 2$

$y = -x + 3$

5) through: $(5, -2)$, parallel to $y = \frac{1}{5}x - 2$

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

6) through: $(1, -3)$, parallel to $y = -4x + 5$

$y = -4x + 1$

7) through: $(-4, -2)$, perp. to $y = -x + 2$

$y = x + 2$

8) through: $(2, 1)$, perp. to $y = \frac{7}{2}x + 5$

$y = -\frac{2}{7}x + \frac{11}{7}$

9) through: $(-3, -3)$, perp. to $y = -\frac{3}{8}x$

$y = \frac{8}{3}x + 5$

10) through: $(0, 4)$, perp. to $y = x - 4$

$y = -x + 4$

11) through: $(2, 4)$, perp. to $y = -3$

$x = 2$

12) through: $(-2, -1)$, perp. to $y = -\frac{1}{3}x - 2$

$y = 3x + 5$