

Lesson 14 Assignment Perpendicular Lines

Date _____ Period _____

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

1) through: $(5, 0)$, perp. to $y = \frac{5}{3}x - 1$

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

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

4) through: $(-2, -2)$, perp. to $y = -2x - 5$

5) through: $(3, -5)$, perp. to $y = \frac{1}{3}x - 1$

6) through: $(3, -1)$, perp. to $y = \frac{3}{5}x - 5$

7) through: $(1, -4)$, perp. to $y = \frac{1}{6}x$

8) through: $(5, 0)$, perp. to $y = 5x$

9) through: $(-4, 4)$, perp. to $y = x + 1$

10) through: $(-4, -1)$, perp. to $y = -x$

Answers to Lesson 14 Assignment Perpendicular Lines (ID: 1)

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

2) $y = 2x - 5$

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

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

5) $y = -3x + 4$

6) $y = -\frac{5}{3}x + 4$

7) $y = -6x + 2$

8) $y = -\frac{1}{5}x + 1$

9) $y = -x$

10) $y = x + 3$