Algebra 1 Name_____

5-6B: Perpendicular Lines

Date_____ Period____ Table_____

Find the slope of a line perpendicular to the given line.

1) $y = -\frac{5}{2}x - 5$

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

3) $y = -x - 3$

4) $y = -\frac{3}{2}x - 1$

5) $y = -\frac{2}{5}x - 2$

6) $y = -\frac{3}{2}x + 3$

7) $y = \frac{1}{5}x - 2$

8) $y = -\frac{7}{4}x - 3$

9) $y = -\frac{7}{5}x + 5$

10) $y = \frac{7}{2}x + 4$

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

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

12) through: $(-4, 5)$, perp. to $y = \frac{2}{5}x + 2$

13) through: $(-2, 3)$, perp. to $y = \frac{2}{7}x - 2$

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

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

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

17) through: $(-3, -3)$, perp. to $y = -\frac{3}{7}x + 4$

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

19) through: $(1, -3)$, perp. to $y = -x - 2$

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

21) through: $(1, -3)$, perp. to $y = \frac{1}{8}x$

22) through: $(2, 5)$, perp. to $y = -\frac{2}{7}x - 5$

