

Name _____ Date _____

Having FUN with SLOPES!

Complete the following tasks. Be sure to show your work! This will be checked for completion.

Are the following pairs of lines: Perpendicular, Parallel, or Neither?

1. $4y - 6x = 20$ $2y - 3x = 6$

2. $y = 2x + 3$ $3y + 6x = 15$ _____

3. $y = -(1/3)x + 5$ $y = 3x - 2$ _____

4. $10y + 4x = 10$ $15y = -6x - 15$ _____

5. $3y + 6x = 12$ $-4y + 8 = 2x$ _____

6. $y = (5/7)x + 6$ $21y - 15x = 34$ _____

Find an equation in slope-intercept form that passes through the given point and is parallel to the given equation.

7. $(5, 2)$, $y = (4/5)x + 2$

8. $(-3, 5)$, $3y + 6x = -18$

9. $(2, -2)$, $2y = 3x + 6$

Find an equation in slope-intercept form that passes through the given point and is perpendicular to the given equation.

10. $(1, 6)$, $y = -(1/3)x + 1$

11. $(4, 0)$, $-4x + y = 5$

12. $(-3, -1)$, $y - 4 = (3/2)x$