

Slopes of Lines and Equations Homework

Name: _____ Date: _____ Period: _____

- Find the slope of the line that passes through $(1, 5)$ and $(-2, 3)$
- Find the equation of a line passing through the given point and parallel to the given equation. Write your answer in slope-intercept form.
 - $(1, -3)$ $y = -\frac{8}{3}x + 4$
 - $(-3, -2)$ $3x + y = -12$
- Find the equation of a line passing through the given point and perpendicular to the given equation. Write your answer in slope-intercept form.
 - $(0, 4)$ $-2x + y = -4$
 - $(5, -5)$ $y = -x + 3$

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4. Determine if the following equations are parallel, perpendicular, or intersecting:

a. $y = \frac{1}{2}x + 5$

$y = \frac{1}{2}x - 10$

b. $y = x + 10$ $x + y = 8$

c. $y = \frac{4}{3}x + 3$

$-4x + 3y = -6$