Name: _____

Date: _____ Score: _____

MATH MONKS

Point-Slope and Slope-Intercept Worksheet

Write the point-slope form of the equation of the lines passing through the given points and with the given slopes

1. through (-5, 5) and slope = 0

2. through (-2, 5) and slope = -5

Write the point-slope form of the equation of the lines through the given points

3. (-2, -3) and (2, 2)

4. (2, 4) and (-4, -2)

Write the point-slope form of the equation of each line given the slope and y-intercept

5. slope = -2, y-intercept = 5

6. slope = $\frac{7}{2}$, y-intercept = 5

Write the slope-intercept form of the equation of each line given the slope and y-intercept

7. slope = $-\frac{4}{5}$, y-intercept = 0

8. slope = -4, y-intercept = 2

Write the slope-intercept form of the equation of each line

9. $y - 4 = 7(x + 2)$

10. $y - 2 = -\frac{2}{5}(x + 5)$

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Answers

1 through (-5, 5) and slope = 0

$y - 5 = 0(x + 5)$

2 through (-2, 5) and slope = -5

$y - 5 = -5(x + 2)$

3 (-2, -3) and (2, 2)

$y + 3 = \frac{5(x + 2)}{4}$

4 (2, 4) and (-4, -2)

$y - 4 = 1(x - 2)$

5 slope = -2, y-intercept = 5

$y - 5 = -2x$

6 slope = $\frac{7}{2}$, y-intercept = 5

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

7 slope = $-\frac{4}{5}$, y-intercept = 0

$y = -\frac{4}{5}x$

8 slope = -4, y-intercept = 2

$y = -4x + 2$

9 $y - 4 = 7(x + 2)$

$y = 7x + 18$

10 $y - 2 = -\frac{2}{5}(x + 5)$

$y = -\frac{2}{5}x + 0$