Name _____

8: Parallel & Perp.

Period____ Date_____

Find the slope of a line parallel to each given line.

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

2) $y = \frac{5}{4}x - 2$

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

3) $y = \frac{4}{5}x - 1$

4) $y = -3x - 1$

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

5) through: $(5, -3)$, parallel to $y = -\frac{4}{5}x - 1$

6) through: $(5, 2)$, parallel to $y = \frac{2}{7}x + 5$

7) through: $(5, 5)$, perp. to $y = -\frac{1}{4}x + 5$

8) through: $(5, -4)$, perp. to $y = \frac{2}{3}x + 4$

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$-\frac{5}{4}$

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$y = -\frac{4}{5}x + 1$

6) through: $(5, 2)$, parallel to $y = \frac{2}{7}x + 5$ $y = \frac{2}{7}x + \frac{4}{7}$

7) through: $(5, 5)$, perp. to $y = -\frac{1}{4}x + 5$

$y = 4x - 15$

8) through: $(5, -4)$, perp. to $y = \frac{2}{3}x + 4$ $y = -\frac{3}{2}x + \frac{7}{2}$