Equations of Parallel and Perpendicular Lines

Version 1

Name:	Date:	Score:	

Direction: Find the equation of the line in y = mx + b that satisfies the given conditions. Show all your work in the space provided.

1) Parallel to y = -2x + 1 and passing through (-1,8)

2) Perpendicular to $y = \frac{1}{5}x - 3$ and passing through (2, -1)

3) Parallel and perpendicular to y = -7x - 3 and passing through (5, 6)

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Direction: Find the equation of the line that satisfies the given conditions. Show all your work in the space provided.

1) Parallel to y = -2x + 1 and passing through (-1,8)

$$y = -2x + 6$$

2) Perpendicular to $y = \frac{1}{5}x - 3$ and passing through (2, -1)

$$y = -5x + 9$$

3) Parallel and perpendicular to y = -7x - 3 and passing through (5, 6)

Parallel: y = -7x + 41

Perpendicular: $y = \frac{x}{7} + \frac{37}{7}$