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Comparing Slopes of a Line To compare slopes of a line:

Parallel Slopes-Perpendicular Slopes-

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Examples:
1) Are the slopes in the following lines parallel?

2) Are the slopes in the following lines parallel? $y = -2x + 1 \\ -4y = -8x + 12$

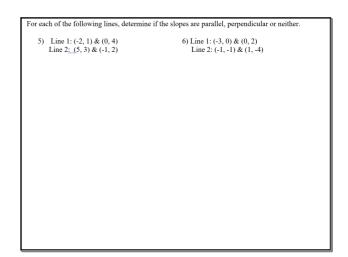
- 3) Are the slopes in the following lines perpendicular? $y = \frac{3}{2}x + 2$ -3y = -2x + 3
- 4) Are the slopes in the following lines perpendicular? y = 2x + 4 $y = -\frac{1}{2}x - 7$

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Examples: Determine the slope of each of the following.

1) (-4,1)and (2,-3)

2) (2,5) and (2,-7)



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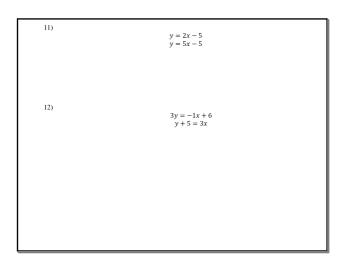
y = 3x + 4 y = 3x + 78) y = -4x + 1 4y = x + 3

9) Line 1: (5, -8) & (13, -15)
Line 2: (-7, 4) & (1, -3)

10) Line 1: (0, -4) & (-5, 1)
Line 2: (0, 3) & (-1, 2)

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13) 5y + 15 = 3 5y = 3x - 1014) y = 4 4y = 6

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