Proudly Completed By:\_\_\_\_\_\_\_\_\_\_\_\_KEY\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Parallel line equations**



1. On the graph, plot the following lines: y = 2x + 3 and y = 2x – 2
2. What do you notice about the two lines?

Parallel

1. What value is the same in both lines?

Slope

1. How can you tell, just by looking at the equation, that two lines have the property mentioned above?

They have the same slope

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1. On the graph, plot the following lines: y = x – 3 and 4y – 2x = 4
2. What do you notice about the two lines?

Parallel

1. What value is the same in both lines?

Slope

1. How can you tell, just by looking at the equation, that two lines have the property mentioned above?

They have the same slope

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1. Write equations of three lines that are parallel to the line with equation y = -3x + 7

y = -3x + 3

 y = -3x + 5

y = -3x + 1

1. Find the pair of parallel lines.

 [A] 

 **[B] **

 **[C] **

1. Find the pair of parallel lines.

 **[A] **

 [B] 

 **[C] **

1. Which of the following equations has a graph that is parallel to the graph of?

 [A] 

 [B] 

 [C] 

 **[D] **

1. Which of the following lines is NOT parallel to ?

 [A] 

 [B] 

 [C] 

 **[D] **

1. Which of the following lines is NOT parallel to ?

 [A] 

 **[B] **

 [C] 

 [D] 

1. Find the pair of parallel lines.

 [A] 

 **[B] **

 **[C] **

1. Find the pair of parallel lines.

 **[A] **

 **[B] **

 [C] 

1. Tell whether the statement “Two lines with negative slopes can be parallel” is true or false. Explain your choice.

True because y = -2x and y = -2x + 4 are parallel because they have the same slope.

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