Algebra 2

Topic 2 // Lesson 2

Name:

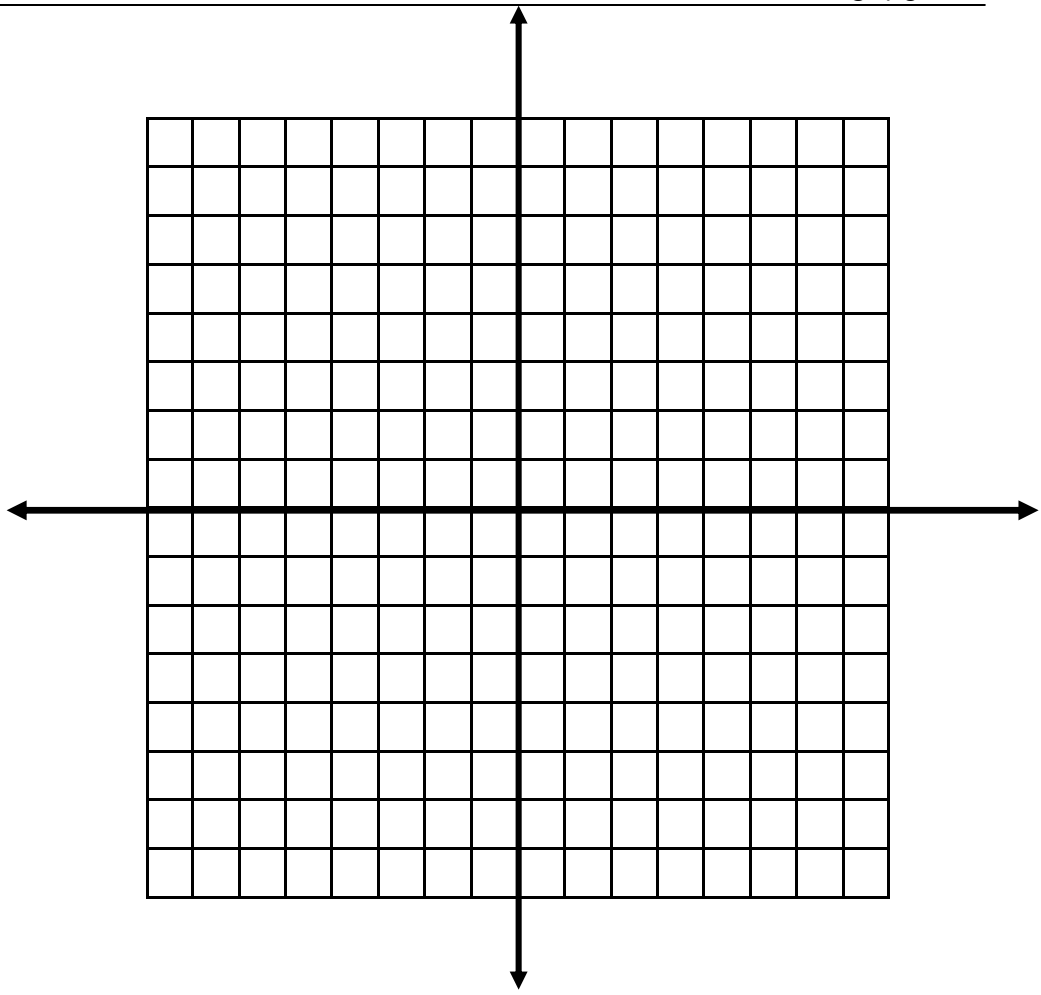
Date: Period: 0 1 2 3 4 5 6

Goal:

Graph the line: y = -3 x + 2

Graph the line: y = -3 x + 3

Graph the line: y = -3 x—2



Q1: What do you notice about the lines?

These lines are called _____ lines

Parallel lines have the _____ _____

Test Questions:

1. Which of the following lines **is** parallel to y = 3x + 7?

   A.) y = 1/3 x + 4 B.) y = -3 x + 7 C.) y = 3x D.) y = 3.1x + 4

2. Which of the following lines **are** parallel to y = 3x + 7?

   A.) y = 1/2 x + 4 B.) y = 3 x + 1 C.) y = 3x D.) y = 3x + 4

Example 1) Find a line parallel to y = 4x + 6 and through the point (-2, 8)

Equation:

Example 2) Find a line parallel to y = 1/3x + 2 and through the point (6, 3)

Equation:

Note: Same steps as chapter 5: 1.) Find slope **m** 2.) Find y-intercept **b** 3.) Plug in **y=mx+b**

1) Find a line parallel to y = 2x + 6 and through the point (-3, 5)

Equation:

2) Find a line parallel to y = 1/2x + 2 and through the point (-4, 9)

Equation:

3) Find a line parallel to y = 2/3 x + 6 and through the point (9, 1)

Equation:

4) Find a line parallel to y = 5x + 2 and through the point (-1, 7)

Equation:

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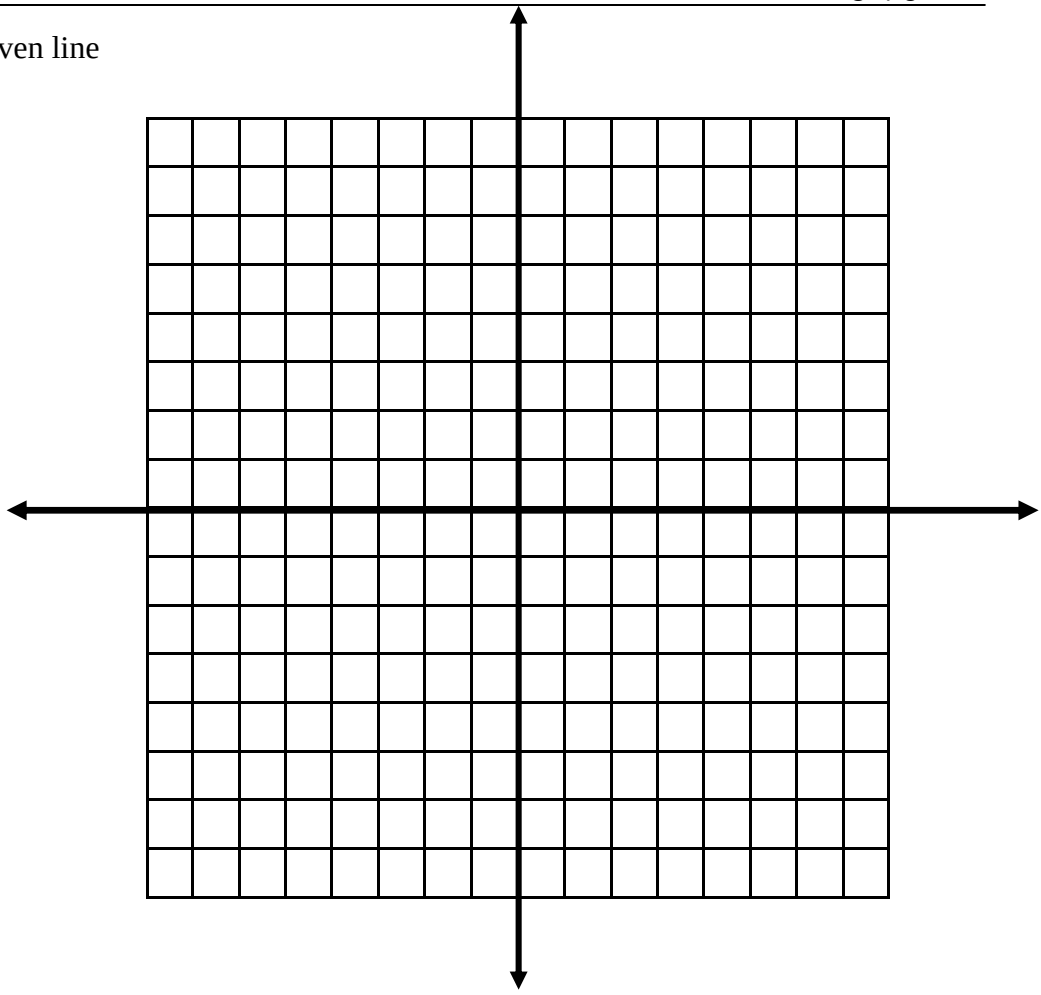
Graph the line: y = -3 x + 3

Graph the line: y = -3 x—2



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