Name _____   Date_____
Math 8 Regents   **HW: Final Exam Review #2**

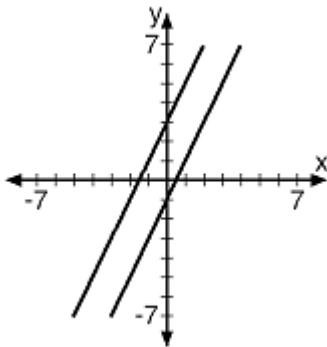*Directions: Select the choice that best answers each question.*

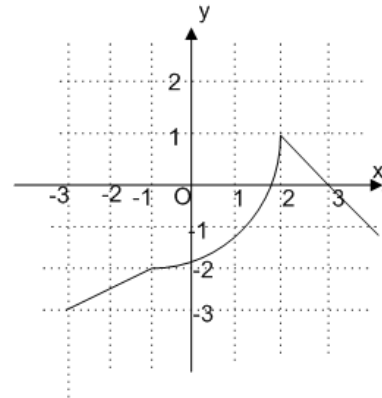|	
1. Which of the following statements is true about the linear equation $y = -2x + 5$? **A** The slope is 2 and the y-intercept is 5. **B** The slope is 5 and the y-intercept is -2. **C** The slope is –2 and the y-intercept is 5. **D** The slope is 5 and the y-intercept is 2.	2. What is the solution to the equation below? $$3x + 2 = 7x - 10$$ **A** 2 **B** 3 **C** 4 **D** No Solution
3. What is the solution to the system of the equations graphed below? **A** $(0, 3)$ **C** No Solution **B** $(0, -1)$ **D** Infinite Many Solutions	4. Based on the graph below, which of the following statements is true? **A** It is a non-linear function. **B** It is a linear function. **C** It is not a function. **D** None of the above.

5. In the diagram shown to the right, parallel lines are cut by a transversal. The measure of ∠1 = 110°. What is the measure of ∠7?
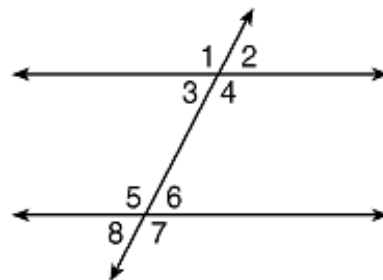
Answer _____

How did you determine your answer?
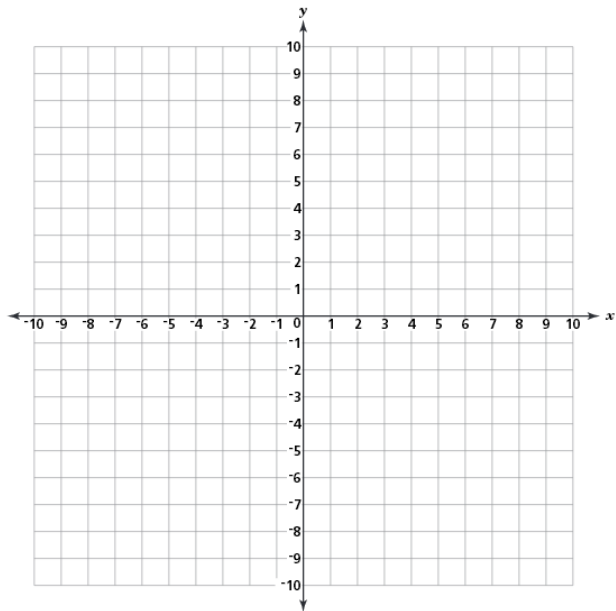
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Short Answer: Show all of your work. You may use a calculator.

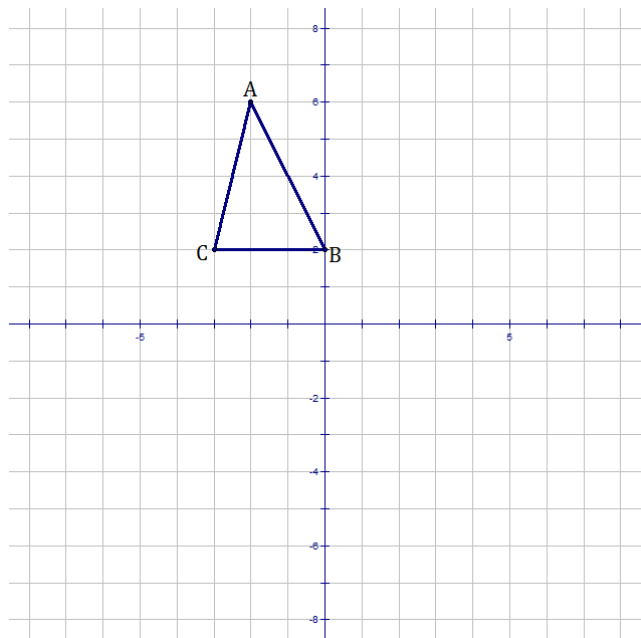|	
6. Solve the system of equations graphically. $y = \dfrac{1}{2}x - 3$ $y = -3x + 4$ **Solution**_____	7. Solve the following system of equations using substitution. *Only an algebraic solution will be accepted.* $y = 3x + 2$ $2x + y = 7$ **Solution**_____

8. Triangle ABC is shown on the grid below.

Part A Show the image of ΔABC after a rotation 90° counter-clockwise.

Part B Show the image of ΔA'B'C' after a reflection over the $y-axis$