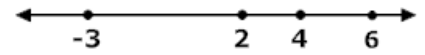


NAME: \_\_\_\_\_ Score \_\_\_\_\_/10

Please **print** your name**SHOW ALL YOUR WORK IN A NEAT AND ORGANIZED FASHION**

1. T F If both sides of an inequality are multiplied by the same real number, the resulting inequality is equivalent to the original inequality.
2. T F If  $3x^2 - 2x + 5$  is added to both sides of an equation, the resulting equation is equivalent to the original equation.
3. T F Refer to the Graph of Equation A at the right. The number 5 could be a solution to Equation A.
4. T F The Graph of Equation A shown at the right could be the graph of a linear equation in one variable.
5. T F The Graph of Equation A shown at the right could be the graph of a linear inequality in one variable.
6. T F  $-3x < 12$  is equivalent to  $x < -4$ .
7. Consider the two equations  $3x^4 - 7x^3 = 8x^5 + 2x^4$  and  $3x^4 - 7x^3 + 2x - 17 = 8x^5 + 2x^4 + 2x - 17$ . What is the relation between the two equations?



Graph of Equation A

8. Consider the statement  $3x + 7x = (3 + 7)x$ . What mathematics property justifies that equality?

**Complete the following statement for the Order of Operations (2 points)**

If no grouping symbols are involved algebraic expressions MUST be evaluated using the following order:

1. Evaluate all \_\_\_\_\_.
2. Do all \_\_\_\_\_ and \_\_\_\_\_ as they occur from left to right.
3. Do all \_\_\_\_\_ and \_\_\_\_\_ as they occur from left to right.