**ALG II PAP PRE-TEST Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

State the domain and range of each relation. Then determine whether each relation is a function. Circle yes or no.

1. 2. Domain Range

-4

-2

0

2

-2

3

D:\_\_\_\_\_\_\_\_\_\_\_\_\_

R:\_\_\_\_\_\_\_\_\_\_\_\_\_

Function?: yes or no

D:\_\_\_\_\_\_\_\_\_\_\_\_\_

R:\_\_\_\_\_\_\_\_\_\_\_\_\_

Function?: yes or no

Name the quadrant in which each point is located.

3. 4. 5.

Find each product.

6. 7.

8. 9.

10. There are two integers. One is 5 more than a number, and the other is 1 less than the same number.

(a.) Write an expression for the two numbers.

(b.) Write a polynomial expression for the product of the numbers.

Factor each polynomial.

11. 12.

13. 14.