Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Date\_\_\_\_\_\_\_\_\_\_\_\_\_Period\_\_\_\_\_\_\_\_\_

**Variables and Relations**

1. What is a variable?

2. In last week’s Michigan game the team scored 35 points. Write out 4 possible score combinations to reach that total score.

3. Describe a relation where both characteristics have decreasing behavior.

4. Describe a relation where both characteristics have increasing behavior.

5. Describe a relation where one characteristic increases while the other decreases.

6. Plot the following relation on the coordinate plane below:

 {(3,4), (2,10), (7,6), (9,10), (4, 9)}

