**H. Geometry Topic 6 HW #22 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

1. Recall that parallel lines have slopes that are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

2. A line that is parallel to  will have a slope of \_\_\_\_\_\_\_\_\_\_.

3. Recall that perpendicular lines have slopes that are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

This also means that the product of these slopes will always equal \_\_\_\_\_\_.

4. A line that is perpendicular to  will have a slope of \_\_\_\_\_\_\_\_\_\_\_.

5. What is the slope of a horizontal line? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (Look this up if you don’t know.)

6. What is the slope of a vertical line? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (Look this up if you don’t know.)

7. Which lines are parallel to the line ?

A)  B)  C)  D) 

8. Which lines are perpendicular to the line ?

A)  B)  C)  D) 

9. Write an equation of a line that goes through (2, -5) and is:

a) parallel to  b) Perpendicular to 

10. Write an equation of a line that goes through (1, 3) and is:

a) parallel to  b) Perpendicular to 

Determine whether each pair of lines are parallel, perpendicular, or neither. EXPLAIN!!

1.  2. 

3.  4. 

5.  6. 

7.  8. 

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**Reminder: Agile Mind Online Questions**