**PRACTICE Midterm – Chapter 6**

**MULTIPLE CHOICE**

1. Determine the slope of this line segment



|  |  |  |  |
| --- | --- | --- | --- |
| a. |  | c. |  |
| b. |  | d. |  |

2. How is this slope?



|  |  |  |  |
| --- | --- | --- | --- |
| a. | negative | c. | positive |
| b. | undefined | d. | zero |

3. The slope of a line is . What would be the slope of a perpendicular line ?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | – | c. |  |
| b. | – | d. |  |

4. A line passes through R(8, 1) and F(–5, –4). Determine the coordinates of 2 points on a line parallel to RF.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | (16, –11) and (21, 2) | c. | (16, 2) and (21, –11) |
| b. | (2, 16) and (21, –11) | d. | (-16, 2) and (10, 12) |

5. Determine an equation of this line.

**

|  |  |  |  |
| --- | --- | --- | --- |
| a. |  | c. |  |
| b. |  | d. |  |

6. Which 2 lines are perpendicular?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | , | c. | , |
| b. | , | d. | , |

7. Describe the graph of the function with equation: **

|  |  |
| --- | --- |
| a. | It is a line that passes through (8, –7) with slope . |
| b. | It is a line that passes through (, 7) with slope . |
| c. | It is a line that passes through (, 7) with slope 5. |
| d. | It is a line that passes through (8, -7) with slope 5. |

8. Determine the slope of the following line: 

|  |  |  |  |
| --- | --- | --- | --- |
| a. | –4 | c. |  |
| b. |  | d. | 4 |

**SHORT ANSWERS**

1. Determine the slope and the *y*-intercept.



2. Rewrite in general form: **

3. a) Determine the *x* and *y*-intercepts:   
 

b) Graph it.



**PROBLEM**

1. Determine an equation of the line passing through B(–1, 3) and:

a) parallel to 

b) perpendicular to 