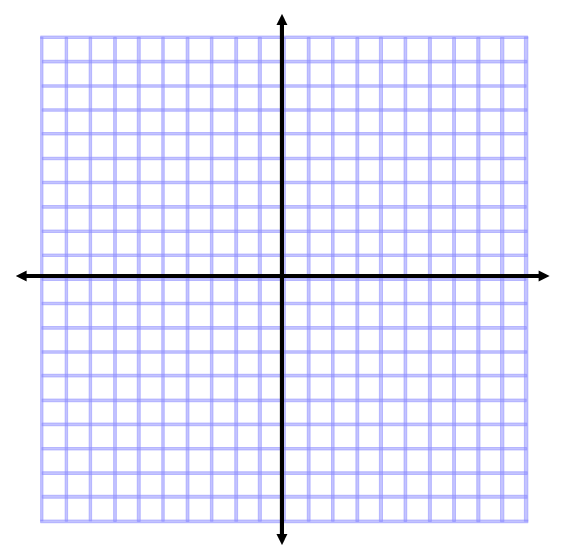
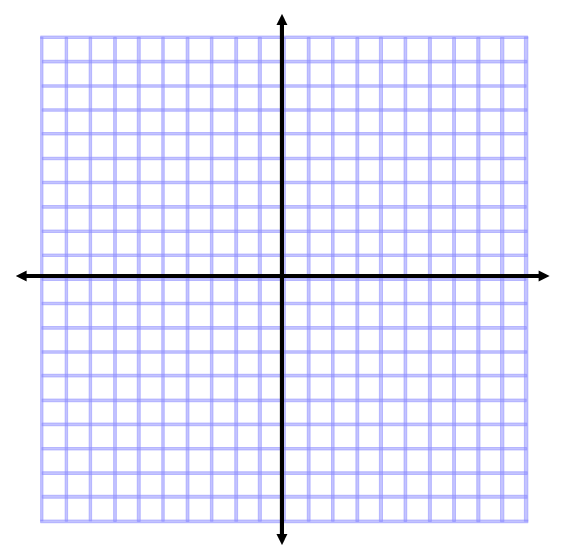
Algebra II- Mrs. Tilus Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Unit 2 Review

1. Match each term with the correct example.

|  |  |  |
| --- | --- | --- |
| A. Parallel Lines |  |  |
| B. Line with a negative slope. | Slope is zero, |  |
| C. Perpendicular Lines |  |  |
| D. Point/Slope form for a line | and m is undefined |  |
| E. Horizontal Line |  |  |
| F. Line with a positive slope. |  |  |
| G. Standard Form for a line | y = mx + b |  |
| H. slope |  |  |
| I. Vertical Line |  |  |
| J. Slope/intercept form for a line | Ax + By = C |  |

2.  Find the Domain and Range.

a.) b.)

Domain: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Domain: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Range: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Range: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

3. Consider the relation: The distance you are from the band and how loud it sounds to you.

a.) Identify the Independent Variable: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Identify the Dependent Variable: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

b.) Sketch a reasonable graph **AND** label the axes appropriately.

4. Answer yes or no if each of the following is a function.

a.) {(-2, 4) (-1, 1) (1, 1) (2, 4)} function?\_\_\_\_\_\_\_\_\_\_

b.) {(4, -2) (1, -1) (1, 1) (4, 2)} function?\_\_\_\_\_\_\_\_\_\_

c.) {(a, b) (a, c) (b, a) (c, b)} function?\_\_\_\_\_\_\_\_\_\_

5. Answer yes or no if each of the following is a function.

a.) b.) c.)

function?\_\_\_\_\_\_\_\_\_\_ function?\_\_\_\_\_\_\_\_\_\_ function?\_\_\_\_\_\_\_\_\_\_

6. Use the functions below to complete the **ordered pair.**

Let:

a.) b.) 6a. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

6b. \_\_\_\_\_\_\_\_\_\_\_\_\_\_

c.) d.) 6c. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

6d. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

7. Graph each equation by first finding the x and y intercepts.

a.) -6x + 3y = 12 x-int = (\_\_\_\_, \_\_\_) b.) 2x + 4y = 16 x-int = (\_\_\_\_, \_\_\_)

y-int = ( \_\_\_, \_\_\_\_) y-int = ( \_\_\_, \_\_\_\_)

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8. Find the slope in each situation.

a.) b.) 8a. \_\_\_\_\_\_\_\_\_\_\_\_\_\_

8b. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

c.) The line containing the points d.) 8c. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

(3, -4) and (6, 8)

8d. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. A line with the y-intercept = 1 and x-intercept = 8e. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

9. Graph each equation. Show all of your work (show me your substitution (or) y-intercept and slope).

a.) b.)

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10. Find an equation in **slope/intercept form or standard form** of the line that passes through

(-2, 6) and (0, 3).

10. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

11. Find an equation in **slope/intercept form or standard form** of the line containing point P (-2, 5) and having slope m =

11. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

12. Consider the line:

a.) What is the slope of a line that is parallel to the given line? 12a. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

b.) What is the slope of a line that is perpendicular to the given line? 12b. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

13. Find equations in **slope/intercept form or standard form** of the lines go through point and that are parallel and perpendicular to line L

L:

Parallel: Perpendicular:

14. Graph the solution to each inequality.

a.) b.)

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15. Find the domain and range for each of the following

a.) 15a. Domain: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Range: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

b.) 15b. Domain: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Range: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

15c. Domain: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Range: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_