Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

3rd Quarter Review

Algebra 1A

Determine whether the relation is a function. If the relation is a function, determine whether the function is linear or nonlinear. (2 points each)

1.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| x | 2 | 5 | 7 | 9 | 14 |
| y | 5 | 11 | 19 | 12 | 3 |

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

2.$y=-6x+8$

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Identify the independent and dependent variables. Sketch a graph.(4 points each)

3. The movie theater in Florence sells more tubs of popcorn when they are showing more comedies.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ depends on \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

4. Jesse runs faster when a bear is closer behind him chasing him.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ depends on \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Determine if the function is discrete or continuous. (1 point each)

5.

  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

6. The number of cookies baked depends on the number of bags of chocolate chips Jozzy has in her cupboard.

Determine the domain and range. (2 points each)

7.

 

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

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

8.

|  |  |
| --- | --- |
| *x* | *y* |
| 2 | 2 |
| 7 | -1 |
| 12 | -4 |
| 17 | -7 |

Domain \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Range \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Fill in the blanks for each function. (5 points each)

9. $f\left(x\right)=4x-2$

 Name of the function: \_\_\_\_\_\_\_\_\_\_\_\_

 The actual function: \_\_\_\_\_\_\_\_\_\_\_\_

 Evaluate for -3:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 Write as an ordered pair: \_\_\_\_\_\_\_\_\_\_\_\_

10. $g\left(x\right)=-2x+6$

 Name of the function: \_\_\_\_\_\_\_\_\_\_\_\_

 The actual function: \_\_\_\_\_\_\_\_\_\_\_\_

 Evaluate for -3:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 Write as an ordered pair: \_\_\_\_\_\_\_\_\_\_\_\_

Solve the equation. (2 points)

11. $-2x=3x+10$