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

Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Algebra 1B 1st Quarter Review

Feel free to use your INB and calculator for this.

What property is shown?

1. ­­­­­­­­­­­­­­­­­­­­­­­­­­­­­\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Simplify the following:

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

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

Evaluate each expression for the given value of the variables. Remember to use PEMDAS!

1. when x=7

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

1. when

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

Identify the coefficient and a constant in the following expression.

1.

Coefficient: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Constant: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Solve the following:

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

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

Solve the following:

1.

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

1.

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

Write the equation for the recursive routine. (2 points)

1. Rate of Change= -12

 Start Value= 0

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

1. Rate of Change= +6

Start Value:= -4

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

Determine the rate of change and y-intercept for the table. Write a linear equation that represents the table. (4 points)

1.

|  |  |
| --- | --- |
| *x* | *y* |
|  0 | 8 |
| 1 | 20 |
|  2 | 32 |
| 3 | 44 |
| 4 | 56 |
| 5 | 68 |

 Rate of Change: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 Y-intercept: ­­­­­­­­­­­­­­­­­­­\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 Equation: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Jack left a bottle of water sitting on the counter. When he first measured the temperature, it was 65˚F. Each hour, he measured the temperature. It remained at 65˚F.
2. Start Value: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. Rate of Change: \_\_\_\_\_\_\_\_\_\_\_\_
4. Equation: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
5. What will the temperature likely be after 12 hours? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_