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

**THIS HOMEWORK IS DUE BY: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

Weekly Homework 1 Mrs. Zunich

**Directions**: Please show all work to receive full credit. You can use your calculator to answer all questions.

1. Evaluate $\left(-6\right)^{4}$ 3. Evaluate $\sqrt[3]{729}$
2. What is the value of $\sqrt{169}$? 4. What is the value of $4^{4}$?

5. Jullian was playing an integer card game. Below is his hand.

-9

10

-6

12

 What is the sum of Jullian’s hand? Support your answer by showing

 work. (2 points)

6. State the coefficient of the terms below.

 a. $8n^{14}$ b.$-12x^{2}$

7. State the base of the terms below.

a. $8n^{14}$ b.$-12^{2}$

8. State the powers of the terms below.

a. $8n^{14}$ b.$-12^{2}$

9. Using the product rule, simplify the following expressions below.

1. $\left(3^{12}\right)\left(3^{-5}\right)$ b. $25x^{17}∙3x^{15}$

10. Using the quotient rule, simplify the following expressions below.

1. $\frac{(-6)^{18}}{(-6)^{10}}$ b. $\frac{15x^{12}}{3x^{4}}$

**SELF-REFLECTION**

Self-evaluation: On a scale of one to five do you feel you about the topics we covered this week?

 Which problems did you feel were really easy and which problems were challenging. Justify your answer.

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