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

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

Weekly Homework 2 Mrs. Zunich

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

1. Identify the base, coefficient and the exponent of the problems below.
2. $-12x^{4}y^{17}$ b. $\left(\frac{8}{5}\right)^{3}$

Base:\_\_\_\_\_\_\_\_\_\_\_\_ Base:\_\_\_\_\_\_\_\_\_\_\_\_

Coeffiecient:\_\_\_\_\_\_\_\_\_\_\_\_ Coeffiecient: \_\_\_\_\_\_\_\_\_\_\_\_\_

Exponent:\_\_\_\_\_\_\_\_\_\_\_\_ Exponent:\_\_\_\_\_\_\_\_\_\_\_\_\_

2. Angel was playing an integer card game. Below is her hand.

-15

-17

-9

10

32

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

 work. (2 points)

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

1. $\left(3^{12}\right)\left(3^{-5}\right)$ b. $25x^{17}y^{30}∙3x^{15}y^{-2}$

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

1. $\frac{(-6)^{27}}{(-6)^{-9 }}$ b. $\frac{8x^{6}y^{2}}{4x^{-3 }y^{1}}$

5. Use the power to a power rule, simplify the following expressions below.

 a.$\left(xy\right)^{5}$ b. $\left(4x^{3}y^{6}\right)^{2}$

**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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