

POWERS AND ROOTS- WORKSHEET 1

Name: _____

Date: _____

INSTRUCTIONS: Answer ALL questions in the spaces provided.

1. SHOW THE DIFFERENCE BETWEEN $(-2)^4$ AND -2^4 BY FILLING IN THE BOXES BELOW.

$$(-2)^4 = (\underline{\hspace{1cm}}) \times (\underline{\hspace{1cm}}) \times (\underline{\hspace{1cm}}) \times (\underline{\hspace{1cm}}) = \underline{\hspace{2cm}}$$
$$-2^4 = - (\underline{\hspace{1cm}}) \times (\underline{\hspace{1cm}}) \times (\underline{\hspace{1cm}}) \times (\underline{\hspace{1cm}}) = \underline{\hspace{2cm}}$$

2. EVALUATE THE FOLLOWING:

| | | |
|--|---|--|
| $7^3 = \underline{\hspace{2cm}}$ | $11^2 = \underline{\hspace{2cm}}$ | $\sqrt{49} = \underline{\hspace{2cm}}$ |
| $-6^3 = \underline{\hspace{2cm}}$ | $\sqrt{100} = \underline{\hspace{2cm}}$ | $\sqrt[2]{361} = \underline{\hspace{2cm}}$ |
| $\sqrt[2]{225} = \underline{\hspace{2cm}}$ | $(-5)^3 = \underline{\hspace{2cm}}$ | $(\underline{\hspace{1cm}})^2 = 1$ |
| $\sqrt[2]{81} = \underline{\hspace{2cm}}$ | $\sqrt{400} = \underline{\hspace{2cm}}$ | $(\underline{\hspace{1cm}})^2 = 169$ |
| $(-3)^5 = \underline{\hspace{2cm}}$ | $-2^6 = \underline{\hspace{2cm}}$ | $-9^1 = \underline{\hspace{2cm}}$ |
| $(\underline{\hspace{1cm}})^2 = 196$ | $(-4)^5 = \underline{\hspace{2cm}}$ | $\sqrt{10000} = \underline{\hspace{2cm}}$ |