

1. $1^2 =$

$$(-1)^2 =$$

$$2^2 =$$

$$(-2)^2 =$$

$$3^2 =$$

$$(-3)^2 =$$

$$4^2 =$$

$$(-4)^2 =$$

$$5^2 =$$

$$(-5)^2 =$$

$$6^2 =$$

$$(-6)^2 =$$

$$7^2 =$$

$$(-7)^2 =$$

$$8^2 =$$

$$(-8)^2 =$$

$$9^2 =$$

$$(-9)^2 =$$

$$10^2 =$$

$$(-10)^2 =$$

2. Is $(-5)^2$ and -5^2 the same thing?

3. $1^3 =$

$$(-1)^3 =$$

$$2^3 =$$

$$(-2)^3 =$$

$$3^3 =$$

$$(-3)^3 =$$

$$4^3 =$$

$$(-4)^3 =$$

$$5^3 =$$

$$(-5)^3 =$$

4. $10^1 =$

$$(-10)^1 =$$

$$10^2 =$$

$$(-10)^2 =$$

$$10^3 =$$

$$(-10)^3 =$$

$$10^4 =$$

$$(-10)^4 =$$

$$10^5 =$$

$$(-10)^5 =$$

$$10^6 =$$

$$(-10)^6 =$$

5. a) $(-2)^1 =$

b) $(-2)^2 =$

c) $(-2)^3 =$

d) $(-2)^4 =$

e) $(-2)^5 =$

f) $(-2)^6 =$

g) $(-2)^7 =$

h) $(-2)^8 =$

6. a) $-1 + -2 + -3 + -4 + -5 + -6 + -7 =$

b) $(-1)(1 + 2 + 3 + 4 + 5 + 6 + 7) =$

c) $-(1 + 2 + 3 + 4 + 5 + 6 + 7) =$

7. Expand each into the sum of four numbers to show that you know how to distribute (F.O.I.L.). Add these four numbers to get your final answer. Watch your signs!

$$(1 + 3)(2 + 4) =$$

$$(4 + 2)(3 + 1) =$$

$$(1 + 2)(3 + 4) =$$

$$(1 - 2)(3 + 4) =$$

$$(1 + 2)(3 - 4) =$$

$$(1 - 2)(3 - 4) =$$

8. $1^0 =$

$1^1 =$

$2^0 =$

$2^1 =$

$3^0 =$

$3^1 =$

$10^0 =$

$10^1 =$

$1,234,567^0 =$

$1,234,567^1 =$

$0^0 =$

$0^1 =$

9. $(10^1)(10^2) =$

$(10^2)(10^3) =$

$(10^3)(10^6) =$

$(2^2)(2^3) =$

10. $(10^1)^2 =$

$(10^2)^2 =$

$(10^9)^3 =$