

Practice - Exponents 3

1) Evaluate each of the following:

a) $2(4^3)$

b) $3(-7)^2$

c) $-5(2^4)$

d) $2(-3^2)$

2) Find the value of each of the following:

a) $2^2 + 2^2$

b) $(3+7)^2 - 15$

c) $6^3 - 3(-5)^3$

d) $11 + (-3)^3 - 3(-6^2)$

3) Evaluate each of the following:

a) $8 - 3(2^2)$

b) $(-5 - 3)^2 + (-4)^2$

c) $(-2)^6 \div 4^2$

d) $24 - 3^2 + (7^2 - 5^2)$

4) Write each as a single power. Then, evaluate each power.

a) $\frac{2^3 \cdot 2^7}{2^6}$

b) $\frac{(2^3)^4}{2^9}$

c) $\frac{(10^4)^5}{(10^2)^8}$

d) $\frac{(-3)^6 \cdot (-3)}{(-3)^4}$

Review of Exponent Laws Order of Operations:



Challenging Yourself!!!

5) Evaluate each of the following:

a) $\left[(4 - 10)^3 \times 3^5 \right]^0 + (6 - 2^2)$

b) $(4 - 16 \div 2^3)^4 - (6 - 3)^2$

c) $(3^3 \times 3)^2 + \left[(-2)^5 \div (-2)^2 \right]^3$