## 2.3 Order of Operations with Powers

March 23, 2015 12:51 PM

We can use the word BEDMAS to help us remember the order of operations

Brackets Exponents

D DIVISION M Multiplication A Addition S Subtraction

Do in order from Left to Right

EV # 1

$$(a) 2^3 + 1$$
  
=  $8 + 1$ 

$$(b.)$$
  $8-3^2$   $= 8-9$ 

$$(c.)(3-1)^3$$
 $=(2)^3$ 

Ex#2

(a.) 
$$[2 \times (-2)^3]^2$$

$$= \left[2 \times (-8)\right]^2$$

$$= \left[-|b|^2\right]$$

$$(b)(1^2+5^\circ)-(-5)'$$

$$= (49 + 1) = (-5)^{1}$$

$$= (50) \div (-5)^{1}$$

$$= 50 \div -5$$

$$= 50 - 10$$

$$120 + 20^{3} - 10^{3} + 12 \times 120$$

$$= 120 + 8000 - 1000 + 12 \times 120$$

$$= 120 + 8 + 1440$$

$$= 1568$$