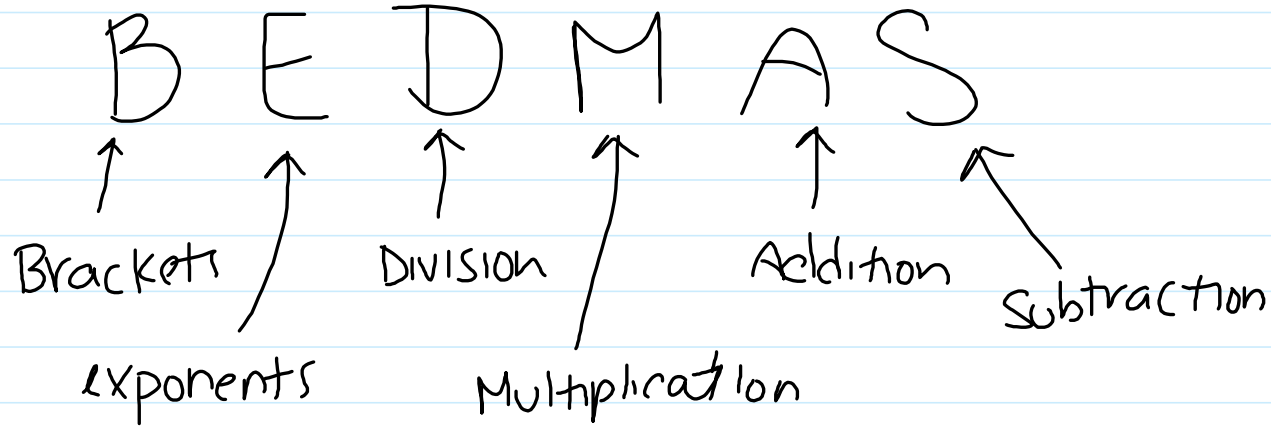
3.3 Order of Operations

September 30, 2015 2:15 PM

RECALL the rules of



Ex #1 $-2(-15-4^2)+4(2+3)^3$

$= -2(-15-16)+4(5)^3$

$= -2(-31)+4(125)$

$= 62+500$

$= \boxed{562}$

Ex #2 $-(2\times 3)^8-(3^3)^2$

$= -(6)^8-3^6$

$= -1679616-729 = \boxed{2304}$

Ex #3 $(3^2\cdot 3^3)^3-(4^3\cdot 4^2)^2$

$= (3^5)^3-(4^5)^2$

$= 3^{15}-4^{10}$

→ brackets first
→ same bases add exponents
→ power rule
→ solve

Ex #4 $(18^2+5^0)^2-(-5)^3$

Ex #4

$$(18^2 + 5^0)^2 - (-5)^3$$

$$= (324 + 1)^2 - (-125)$$

$$= (325)^2 - (-125)$$

$$= 105,625 - (-125) = \boxed{-845}$$

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