Warm-Up October 20, 2015

Evaluate each of the following:

a) (-3^4) b) $(-3)^3$ c) $(-2)^4$ d) -5^0 e) $(-6)^0$

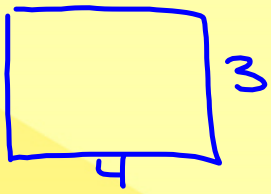
-81 -27 16 -1 1

-3^4

$(-3)^4$

Substitution and Orders of Operations!!!

4x3



$A = bh$
$A = (4)(3)$
$A = 12$

Watch the sign for your base!!!

-11^2

Evaluate

$(p - q)^2 - pq$ $p = -1$ $(p - q)^2 - pq$

$q = 10$

$(-1-10)^2 - (-1)(10)$ $(-1-10)^2 - -1 \times 10$

$(-11)^2 - -10$

$121 - -10$

131

$$\frac{x + y - x^3}{4}$$

$x = 1$

$y = 8$

$$\frac{1 + 8 - (1)^3}{4}$$

$$\frac{1 + 8 - 1}{4}$$

$$\frac{8}{4} = 2$$

$x^3 - y^2 + xy$

$x = -2$

$y = -3$

$(-2)^3 - (-3)^2 + (-2)(-3)$

$-8 - 9 + 6$

$-17 + 6 \leftarrow$

-11

$x = -1 \quad y = 4$

$2x^2[3 - x(y)]$

$2(-1)^2[3 - (-1)(4)]$

$2(1)[3 - -4]$

$2(1)(7)$

14

16

14

21

32

98

-28

-14

Solving Problems Using Powers

To calculate the volume of a cylinder the following formula is used,

V= $\pi r^2 h$.

Given the height of the cylinder is 7 and the radius is 10 calculate the volume

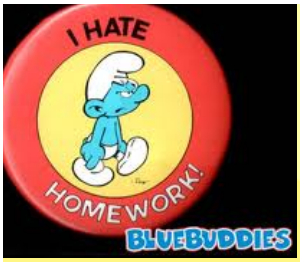
$V = \pi r^2 h$

$V = 3.14(10)^2(7)$

$V = 3.14(100)(7)$

$V = 2198$

$\pi = 3.14$



1. WORKSHEET

Show work on the

sheet

1, 2, 4, 5, 6, 7, 8, 9

2. Midunit Review...1-2, 4-9

Page 69

Quiz on Section 2.1-2.3 Tomorrow