

# UNIT 4: REVIEW HW

Tips/Reminders

## Simplifying expressions and solving equations

~ Unit 4, Page 13 ~

### Review.

Simplify the following expressions.

$$1) 2 + 5(-12)$$

M  
A

P  
M  
A

$$2) -10 + 2(5 - 9)$$

$$3) 4 + 5 * 4^2$$

$$4) 10 \div 5 * 2$$

HINT: Use Order of Operations to simplify expressions!

Evaluate the following expressions if  $x = 4$ ,  $y = -2$ , and  $z = 10$ .

HINT: First substitute, then simplify like above!

$$5) 2x - z$$

$$2(4) - (10)$$

$$6) -3yz + 2x$$

$$7) \frac{z+y}{x}$$

$$8) z - \frac{xz}{y}$$

Solve each of the following.

S A D M E P

HINT: Use reverse Order of Operations to solve equations!

$$9) -5 + \frac{x}{7} = -8$$

$$\frac{-5}{+5} + \frac{x}{7} = \frac{-8}{+5}$$

$$\frac{x}{7} = -3.7$$

$$x = -21$$

$$10) \frac{2}{5}x + 8 = -10$$

$$11) \frac{x+3}{4} = 5$$

$$12) 3(x - 7) = -12$$

$$13) 3x + 5x = 56$$

$$14) -5 + 6x = -30$$