

Section/Lesson Title: FIRST Degree (Linear) EQUATIONS

Materials: WS

HW# 2.2 WS

Reflections:

I SOLVING 1ST Degree EQUATIONS

1. BASIC:  $3x + 2 = 9x + 7$

$$2.37x + 3.1288 = 6.93x - 2.48$$

$$5.6088 = 4.56x$$

$$\boxed{1.23 = x}$$

2. FRACTIONS:  $2x - \frac{x-5}{4} = \frac{3x-1}{2} + 1$

$$8x - (x-5) = 2(3x-1) + 4$$

$$8x - x + 5 = 6x - 2 + 4$$

$$7x = -3$$

$$\boxed{x = -3}$$

$$\frac{1}{2x} - \frac{2}{5x} = \frac{1}{10x} - 1$$

$$5 - 4 = 1 - 10x$$

$$1 = 1 - 10x$$

$$0 = -10x$$

$$\boxed{x = 0} \rightarrow \text{RETURNS NO SOLUTIONS}$$

3. LITERAL  $x = 3y - 5$  For  $y$

$$V = \frac{\pi d^2 h}{4} \text{ For } h$$

4. INEQUALITIES

$$-3x + 6 \leq 12$$