1.4 Notes Part 2

Learning Target: Rewrite Literal Equations: Formulas

<u>Literal Equation</u> = Equation with 2 or more variables

$$2y + 4x = 6$$

$$V = \frac{1}{3}(Bh)$$

Reminder Math isn't Magic

You MUST use algebraic properties of equality to "move" terms and coeficients from one side of an equation to the other.

Addition/Subtraction Property of Equality Multiplication/Division Property of Equality

Solutions for Literal Equations

Solve for h

$$5\pi + 2h = 35\pi$$



$$8\pi h = 24$$

$$\frac{5\pi}{5\pi} + 2h = 35\pi$$

$$\frac{8\pi h}{8\pi} = \frac{243}{8\pi}$$

$$\frac{4}{5}d = \frac{30\pi}{5}$$

$$\frac{30}{5} = 6\pi$$

$$\frac{30}{5} = 6\pi$$

$$\frac{7}{6} = \frac{1}{6}\pi$$

Temperature

$$K = C + 273.15$$

This converts temperatures from Celcius to Kelvin.

Solve for
$$C$$
 $K = C + 273.15$ -273.15 -273.15

$$C = K - 273.15$$

Solve the formula for the red variable.

(Think about what operation connects the red variable to the others)

$$A = bh$$

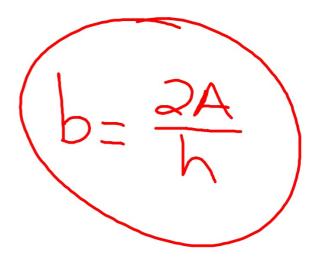
$$\frac{A}{h} = \frac{b \cdot h}{h}$$

$$I = Prt$$

Area of a Triangle
$$A = \frac{1}{2}bh$$

Solve for b

$$\underline{A} = \frac{1}{2}(\underline{b}h)$$



Solve for

$$S = \pi r^2 + \pi r \ell$$

Surface Area of a cone

$$S = \pi r^{2} + \pi r \ell$$

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

$$\frac{5}{a} = \frac{2}{a}$$

$$\frac{5}{8} = X$$

$$\frac{S-\pi r^2}{\pi r} = 1$$

$$\frac{S}{\pi r} - \frac{\pi r^2}{\pi r} = 1$$

$$\frac{S}{\pi r} - \frac{S}{\pi r} - r$$

$$B=3\frac{V}{h}$$

$$h \cdot B = 3 \frac{V}{b}$$

Homework

Pg. 30 and 31 #3, 5, 6, 8, 9, 13, 14-19

Reminder - Chapter 1 Test is on Wednesday

You can see me for extra help
• Wednesday 7:30 AM