

Section 1.4: Rewriting Equations & Formulas  
In Class Notes

Name: \_\_\_\_\_

Ex:) Solve the equation for  $y$ .

Notes:

$$2y + 5x = 6$$

OYO:) Solve the equation for  $y$ .

Notes:

$$12 = 6x + 3y$$

Ex:) The formula for the surface area  $S$  of a cone is  $S = \pi r^2 + \pi r \ell$ .  
Solve the formula for the slant height  $\ell$ .

Notes:

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

OYO:) The formula for the area of a triangle is  $A = \frac{b \cdot h}{2}$ .

Notes:

Solve the formula for the base  $b$ .

$$A = \frac{b \cdot h}{2}$$

Ex:) Solve the temperature formula for F.

Notes:

$$C = \frac{5}{9}(F - 32)$$

OYO:) Solve the temperature formula for C.

Notes:

$$F = \frac{9}{5}C + 32$$

Ex:) Determine which has the greater temperature?

Notes:



OYO:) Room temperature is considered to be  $70^{\circ}F$ . The temperature outside is currently  $23^{\circ}C$ . Is this greater than or less than room temperature?

Notes:

More like #45 from Section 1.3

Ex:) Fill in the blanks so that the equation has infinitely many solutions.

$$5x + 4 - 7x = \square(x - \square)$$

Ex:) Fill in the blanks so that the equation has no solutions.

$$8 - 5x + 12 = \square(x + \square)$$

OYO:) Fill in the blanks so that the equation has no solutions.

$$-3x - 16 - x = \square(x - \square)$$

OYO:) Fill in the blanks so that the equation has infinitely many solutions.

$$21 - 12x + 15 = \square(x + \square)$$

Ex:) At a family picnic,  $\frac{1}{4}$  of your family wanted burgers for lunch. If 7 of your family members had burgers, how many family members attended the picnic?

OYO:) In your math class,  $\frac{1}{7}$  of the students borrowed a calculator from the teacher. The rest of the students brought their own calculators. If 2 students borrowed a calculator from the teacher, how many total students are in your math class?