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Literal Equations

What is a literal equation?

a literal equation is an equation w/ more than one variable.

Steps to solve:

- ① Determine the variable you are solving for.
- ② Move all other terms & variables to the other side by isolating the variable & using inverse operations.
- ③ Rewrite the equation with the isolated variable

Solving Algebra Literal Equations -

• Simple Interest $I = Prt$

- Solve for t .

$$\frac{I}{Pr} = \frac{Pr\cancel{t}}{Pr} \leftarrow \text{Isolate}$$

Being mult. so we divide.

$$t = \frac{I}{Pr} \quad \text{Rewrite}$$

• Slope-Intercept Form $y = mx + b$

- Solve for m .

$$y = \boxed{m}x + b$$

$$\frac{y-b}{x} = \frac{\boxed{m}x}{x}$$

$$m = \frac{y-b}{x}$$

• Standard Form of a Linear Equation $Ax + By = C$

- Solve for y.

$$Ax + By = C$$

$$-Ax \quad -Ax$$

$$\frac{By}{B} = \frac{C - Ax}{B}$$

$$y = \frac{C - Ax}{B}$$