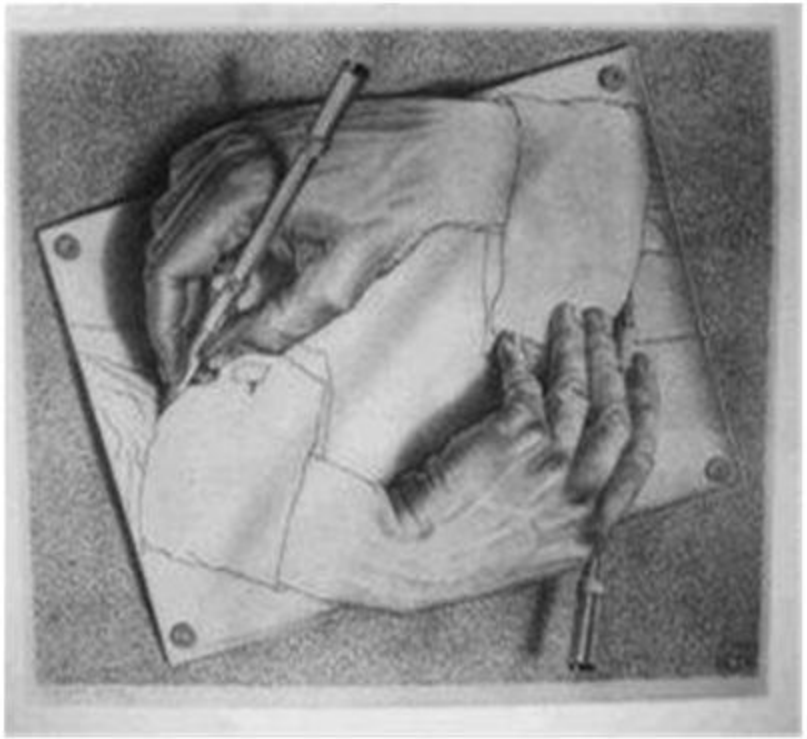
Rewrite Equations and Formulas



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Rewrite Equations and Formulas

An equation in x and y is written in **function form** when the dependent variable (y) is isolated on one side of the equation.

A **literal equation** is an equation that contains two or more variables. The equation $ax + b = c$ is a literal equation.

Rewrite Equations and Formulas

Solve the following equation by rewriting them with the dependent variable given.

$ax + b = c$ **in terms of** x

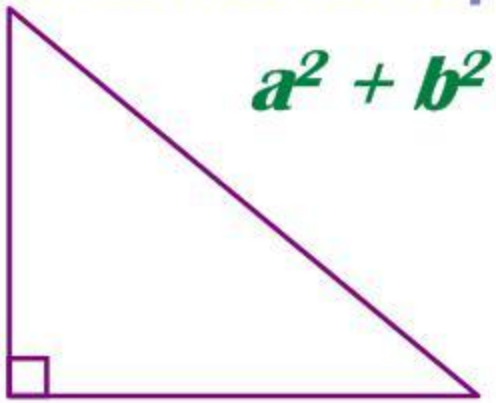
Rewrite Equations and Formulas

Solve the following equation by rewriting them with the dependent variable given.

$a(x + b) = c$ **in terms of** x

Rewrite Equations and Formulas

Solve the following equation by rewriting them with the dependent variable given.

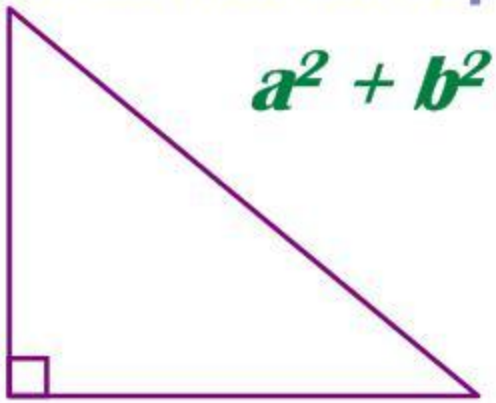


$a^2 + b^2 = c^2$ for b

Rewrite Equations and Formulas

Solve the following equation by rewriting them with the dependent variable given.

$a^2 + b^2 = c^2$ for b



Pythagorean Theorem

Rewrite Equations and Formulas

What is the solution when solving for "t" in the equation

$$\frac{rt}{2} + 5 = 10$$

(a) $t = \frac{10}{r}$

(b) $t = 10r$

(c) $t = 10 - r$

(d) $t = 15r$

(e) $t = 30r$

Rewrite Equations and Formulas

What is the solution when solving for "p" in the equation

$$m = \frac{p - 3}{f}$$

(a) $3mf = p$

(b) $mf + 3 = p$

(c) $mf - 3 = p$

(d) $-\frac{mf}{3} = p$

(e) $\frac{m - f}{3} = p$

Rewrite Equations and Formulas

You are visiting Toronto, Canada, over the weekend. A website gives the forecast shown. Find the low temperatures for Saturday and Sunday in degrees Fahrenheit. Use the formula $C = \frac{5}{9}(F - 32)$ where C is the temperature in degrees Celsius and F is the temperature in degrees Fahrenheit.

Saturday	Sunday
10°C	10°C