

Solving Formulas for a Specified Variable Video Lecture

Section 2.5

Course Learning Objective:

Solve literal equations.

Weekly Learning Objectives:

Solve a formula or equation for one of its variables.

Solving Formulas for a Specified Variable

A formula or “literal equation” is a relationship between measurements. Occasionally it is necessary to take a formula and rearrange it so that it is solved for a different variable.

Examples:

1) Solve for h: $V = \frac{1}{3}\pi r^2 h$ 2) Solve for b: $P = a + b + c$

3) Solve for C: $F = \frac{9}{5}C + 32$ 4) Solve for b: $A = \frac{h(b+B)}{2}$

5) Solve for W : $A = 2HW + 2LW + 2LH$

6) Solve for h : $a(b - h) - hm = r$

7) Solve for c : $ax - 4c = a(c - d) + 3$

