



Evaluate each formula for the given information. First copy the formula, and then substitute the values provided for the variables and show the steps necessary to find the solution.

1. If $P = 2L + 2W$, where P = perimeter of a rectangle, L = length, and W = width,

find P when:

$$L = 16 \text{ ft}$$

$$W = 10 \text{ ft}$$

2. If $V = IR$, where V = voltage, I = amperage, and R = resistance,

find V , when:

$$I = 8 \text{ amps}$$

$$R = 3.5 \text{ ohms}$$

3. If $I = PRT$, where I = amount of interest, P = principal, R = interest rate, T = time in years,

find I when:

$$P = \$650$$

$$R = 4\%$$

$$T = 3 \text{ yrs}$$

4. If $V = \pi r^2 h$ where V = volume of a cylinder, r = radius, and h = height,

find V when:

$$\pi = 3.14$$

$$r = 4 \text{ cm}$$

$$h = 10 \text{ cm}$$

5. If $S = \frac{n}{2}(t_1 + t_n)$ where S = sum of the terms of a sequence, n = number of terms,

t_1 = first term, and t_n = last term,

find S when:

$$n = 15$$

$$t_1 = 7$$

$$t_n = 31$$

(1) 52 ft, (2) 28 volts, (3) \$78, (4) 502.4 cubic cm, (5) 285