

Overview of problems



Example Set: A

Solve the following equation for the given variable:

- 1. F = ma solve for a
- 2. A = lw solve for l
- 3. P = R C solve for R
- 4. P = 2w + 2l solve for l



Example Set: B

Solve the following equation for the given variable:

- 1. $V = \pi r^2 h$ solve for h
- 2. L = a + (n-1)d solve for n
- 3. $A = \frac{1}{2}h(b_1 + b_2)$ solve for b_1



Overview of problems



Example Set: C

Solve the following equation for the given variable:

1.
$$S = \frac{rL - a}{r - 1}$$
 solve for r

2.
$$y = mx + b$$
 solve for m

🏲 Example Set: D

1. Given Albert Einstein's famous formula for the Theory of Relativity, rewrite the equation in terms of m and then in terms of c.

$$E = mc^2$$



Overview of problems



Example Set: A -ANSWER KEY

Solve the following equation for the given variable:

1.
$$F = ma$$
 solve for $a = \frac{F}{m}$

2.
$$A = lw$$
 solve for $l = \frac{A}{w}$

3.
$$P = R - C$$
 solve for $R R = P + C$

4.
$$P = 2w + 2l$$
 solve for $l L = \frac{P - 2w}{2}$



Example Set: B- ANSWER KEY

Solve the following equation for the given variable:

1.
$$V = \pi r^2 h$$
 solve for $h = \frac{V}{\pi r^2}$

2.
$$L = a + (n-1)d$$
 solve for $n = \frac{L-a+d}{d}$

3.
$$A = \frac{1}{2}h(b_1 + b_2)$$
 solve for b_1 $b_1 = \frac{2A - hb_2}{h}$



Overview of problems



Example Set: C-ANSWER KEY

Solve the following equation for the given variable:

1.
$$S = \frac{rL - a}{r - 1}$$
 solve for $r = \frac{s - a}{s - l}$

2.
$$y = mx + b$$
 solve for $m = \frac{y-b}{x}$



Example Set: D-ANSWER KEY

1. Given Albert Einstein's famous formula for the Theory of Relativity, rewrite the equation in terms of m and then in terms of c.

$$E = mc^2$$

$$m = \frac{E}{c^2}$$

$$C = \sqrt{\frac{E}{m}}$$