

1 Solve  $d = rt$  for  $r$

A)  $r = \frac{d}{t}$

B)  $r = \frac{t}{d}$

C)  $r = d - t$

D)  $r = dt$

$$\frac{d}{t} = \frac{\cancel{r}t}{\cancel{t}}$$

$$r = \frac{d}{t}$$

Sep 19-2:38 PM

2 Solve  $I = Prt$  for  $r$

A)  $r = \frac{P - 1}{It}$

B)  $r = \frac{P - I}{1 + t}$

C)  $r = P - It$

D)  $r = \frac{I}{Pt}$

$$\frac{I}{Pt} = \frac{\cancel{P}r\cancel{t}}{\cancel{P}\cancel{t}}$$

$$r = \frac{I}{Pt}$$

Sep 19-2:38 PM

3 Solve  $A = \frac{1}{2}bh$  for  $b$  A

A)  $b = \frac{h}{2A}$

B)  $b = \frac{Ah}{2}$

C)  $b = \frac{2A}{h}$

D)  $b = \frac{A}{2h}$

$$A = \frac{1}{2}bh$$

$$2(A) = 2\left(\frac{1}{2}bh\right)$$

$$\frac{2A}{h} = \frac{bh}{h}$$

$$b = \frac{2A}{h}$$

Sep 19-2:38 PM

4 Solve  $V = \frac{1}{3}Ah$  for  $A$  A

A)  $A = \frac{V}{3h}$

B)  $A = \frac{3V}{h}$

C)  $A = \frac{h}{3V}$

D)  $A = \frac{3h}{V}$

$$3(V) = 3\left(\frac{1}{3}Ah\right)$$

$$3V = Ah$$

Sep 19-2:38 PM

5 Solve  $P = a + b + c$  for  $b$  **A**

A)  $b = P + a + c$

B)  $b = P + a - c$

C)  $b = a + c - P$

D)  $b = P - a - c$

$$P = a + b + c$$

$$P - a - c = a + b + c - a - c$$

$$P - a - c = b$$

Sep 19-2:38 PM

6 Solve  $P = 2L + 2W$  for  $W$  **A**

A)  $W = P - L$

B)  $W = \frac{P - L}{2}$

C)  $W = \frac{P - 2L}{2}$

D)  $W = P - 2L$

$$P = 2L + 2W$$

$$P - 2L = 2L + 2W - 2L$$

$$\frac{P - 2L}{2} = \frac{2W}{2} \quad W = \frac{P - 2L}{2}$$

Sep 19-2:38 PM

7 Solve  $A = P + PRT$  for  $T$  a

A)  $T = \frac{PR}{A - P}$

B)  $T = \frac{A - P}{PR}$

C)  $T = \frac{P - A}{PR}$

D)  $T = \frac{A}{R}$

$$A = P + PRT$$

$$A - P = P + PRT - P$$

$$\frac{A - P}{PR} = \frac{PRT}{PR}$$

$$T = \frac{A - P}{PR}$$

Sep 19-2:38 PM

8 Solve  $A = \frac{1}{2}h(B + b)$  for  $B$  a

A)  $B = \frac{A - bh}{h}$

B)  $B = \frac{2A + bh}{h}$

C)  $B = 2A - bh$

D)  $B = \frac{2A - bh}{h}$

$$2 \cdot A = \cancel{2} \cdot \left[ \frac{1}{\cancel{2}} h(B + b) \right]$$

$$2A = h(B + b)$$

$$2A = Bh + bh$$

$$2A - bh = Bh + bh - bh$$

$$\frac{2A - bh}{h} = \frac{Bh}{h}$$

Sep 19-2:38 PM

9 Solve  $F = \frac{9}{5}C + 32$  for C

A)  $C = \frac{5}{F - 32}$

B)  $C = \frac{9}{5}(F - 32)$

C)  $C = \frac{F - 32}{9}$

D)  $C = \frac{5}{9}(F - 32)$

Sep 19-2:38 PM

10 Solve  $S = 2\pi rh + 2\pi r^2$  for h

A)  $h = \frac{S - 2\pi r^2}{2\pi r}$

B)  $h = S - r$

C)  $h = 2\pi(S - r)$

D)  $h = \frac{S}{2\pi r} - 1$

$$S = 2\pi r h + 2\pi r^2$$

$$S - 2\pi r^2 = 2\pi r h + 2\pi r^2 - 2\pi r^2$$

$$\frac{S - 2\pi r^2}{2\pi r} = \frac{2\pi r h}{2\pi r} \quad h = \frac{S - 2\pi r^2}{2\pi r}$$

Sep 19-2:38 PM