

Solve for the indicated variable.

1. $A = i + p$; for p

2. $X = 180 - Y$; for Y

3. $P = a + b - c$; for c

4. $K = x - (y - 1)$; for y

5. $V = \pi r^2 h$; for h

6. $C = \frac{mv^2}{r}$; for r

7. $t = \frac{pD}{2s}$; for s

8. $2c - 3d = 11$; for d

9. $3by - 2 = 2by + 1$; for y

10. $5ax - 2b = ax - c$; for x

$$11. \quad 1 - 3pr = 6pr + t \quad ; \quad \text{for } r$$

$$12. \quad A = P + Prt \quad ; \quad \text{for } t$$

$$13. \quad a = \frac{v_2 - v_1}{t} \quad ; \quad \text{for } v_1$$

$$14. \quad \frac{a}{t} + 1 = 0 \quad ; \quad \text{for } a$$

$$15. \quad a(x + b) = c \quad ; \quad \text{for } x$$

$$16. \quad S = 2a(n + \ell) \quad ; \quad \text{for } \ell$$

$$17. \quad A = \pi r^2 + \pi r \ell \quad ; \quad \text{for } \ell$$

$$18. \quad S = \frac{a}{1 - r} \quad ; \quad \text{for } r$$

$$19. \quad s = \frac{H}{m(t_1 - t_2)} \quad ; \quad \text{for } t_1$$

$$20. \quad I = \frac{2V}{R + 2r} \quad ; \quad \text{for } R$$

Answer List

- | | | |
|--------------------------|-------------------------------|----------------------|
| 1. $A - i$ | 2. $180 - X$ | 3. $a + b - P$ |
| 4. $x + 1 - K$ | 5. $\frac{V}{\pi r^2}$ | 6. $\frac{mv^2}{C}$ |
| 7. $\frac{pD}{2t}$ | 8. $\frac{2c-11}{3}$ | 9. $\frac{3}{b}$ |
| 10. $\frac{2b-c}{4a}$ | 11. $\frac{1+t}{9p}$ | 12. $\frac{A-P}{Pr}$ |
| 13. $v_2 - at$ | 14. $-t$ | 15. $\frac{c-ab}{a}$ |
| 16. $\frac{S-2an}{2a}$ | 17. $\frac{A-\pi r^2}{\pi r}$ | 18. $\frac{S-a}{S}$ |
| 19. $\frac{H+smt_2}{sm}$ | 20. $\frac{2V-2Ir}{I}$ | |