

## Solving Literal Equations: Practice Problems

**Solve each equation for the indicated variable:**

1.  $C = 2\pi r$  for  $r$

2.  $PV = nRT$  for  $R$

3.  $PV = nRT$  for  $T$

4.  $S = vt - 16t^2$  for  $v$

5.  $F = 1.8C + 32$  for  $C$

6.  $f = v + at$  for  $t$

7.  $F = \frac{Gm_1m_2}{r^2}$  for  $m_1$

8.  $K = \frac{mv^2}{2}$  for  $m$

9.  $\frac{PV_1}{T_1} = \frac{PV_2}{T_2}$  for  $P_1$

10.  $I = \frac{E}{R+r}$  for  $R$

11.  $T = fm - gm$  for  $m$

12.  $\frac{1}{R_1} + \frac{1}{R_2} = \frac{1}{R}$  for  $R_1$

13.  $S = -\frac{1}{2}gt^2 + h$  for  $g$

14.  $a + b = ra$  for  $a$