

# Resolver Cuadráticas (G)

Resuelva cada ecuación en función de x.

1.  $27x^2 + 45x - 27 = 45$

7.  $35x^2 - 34 = 1$

2.  $-18x^2 + 34x - 7 = 9$

8.  $-24x^2 + 67x - 5 = 3$

3.  $2x^2 + 19x + 12 = -30$

9.  $21x^2 + 8x - 2 = 3$

4.  $27x^2 + 36x - 7 = 8$

10.  $-7x^2 + 51x - 2 = 52$

5.  $81x^2 - 54x - 21 = 6$

11.  $24x^2 + 55x - 2 = 22$

6.  $-45x^2 + 42x + 9 = -39$

12.  $45x^2 + 19x + 1 = -1$

# Resolver Cuadráticas (G) Respuestas

Resuelva cada ecuación en función de x.

1.  $27x^2 + 45x - 27 = 45$   
 $27x^2 + 45x - 72 = 0$   
 $(9x - 9)(3x + 8) = 0$   
 $x = 1, -2 \frac{2}{3}$

2.  $-18x^2 + 34x - 7 = 9$   
 $-18x^2 + 34x - 16 = 0$   
 $(9x - 8)(2x - 2) = 0$   
 $x = \frac{8}{9}, 1$

3.  $2x^2 + 19x + 12 = -30$   
 $2x^2 + 19x + 42 = 0$   
 $(x + 6)(2x + 7) = 0$   
 $x = -6, -3 \frac{1}{2}$

4.  $27x^2 + 36x - 7 = 8$   
 $27x^2 + 36x - 15 = 0$   
 $(9x - 3)(3x + 5) = 0$   
 $x = \frac{1}{3}, -1 \frac{2}{3}$

5.  $81x^2 - 54x - 21 = 6$   
 $81x^2 - 54x - 27 = 0$   
 $(9x - 9)(9x + 3) = 0$   
 $x = 1, -\frac{1}{3}$

6.  $-45x^2 + 42x + 9 = -39$   
 $-45x^2 + 42x + 48 = 0$   
 $(9x + 6)(5x - 8) = 0$   
 $x = -\frac{2}{3}, 1 \frac{3}{5}$

7.  $35x^2 - 34 = 1$   
 $35x^2 - 35 = 0$   
 $(5x - 5)(7x + 7) = 0$   
 $x = 1, -1$

8.  $-24x^2 + 67x - 5 = 3$   
 $-24x^2 + 67x - 8 = 0$   
 $-(8x - 1)(3x - 8) = 0$   
 $x = \frac{1}{8}, 2 \frac{2}{3}$

9.  $21x^2 + 8x - 2 = 3$   
 $21x^2 + 8x - 5 = 0$   
 $(7x + 5)(3x - 1) = 0$   
 $x = -\frac{5}{7}, \frac{1}{3}$

10.  $-7x^2 + 51x - 2 = 52$   
 $-7x^2 + 51x - 54 = 0$   
 $-(x - 6)(7x - 9) = 0$   
 $x = 6, 1 \frac{2}{7}$

11.  $24x^2 + 55x - 2 = 22$   
 $24x^2 + 55x - 24 = 0$   
 $(3x + 8)(8x - 3) = 0$   
 $x = -2 \frac{2}{3}, \frac{3}{8}$

12.  $45x^2 + 19x + 1 = -1$   
 $45x^2 + 19x + 2 = 0$   
 $(9x + 2)(5x + 1) = 0$   
 $x = -\frac{2}{9}, -\frac{1}{5}$