

Resolver Cuadráticas (A)

Resuelva cada ecuación en función de x.

1. $2x^2 + 14x + 3 = -17$

7. $2x^2 - 9x - 51 = 5$

2. $2x^2 + 2x - 3 = 1$

8. $2x^2 + x - 5 = 10$

3. $4x^2 - 28x + 43 = -2$

9. $x^2 - 7x + 4 = -6$

4. $2x^2 - 16x + 24 = 0$

10. $2x^2 - 17x + 15 = -15$

5. $2x^2 - 18x + 8 = -8$

11. $2x^2 - 9x + 3 = -6$

6. $4x^2 - 32x + 9 = -55$

12. $2x^2 - x - 1 = 0$

Resolver Cuadráticas (A) Respuestas

Resuelva cada ecuación en función de x.

1. $2x^2 + 14x + 3 = -17$
 $2x^2 + 14x + 20 = 0$
 $(2x + 4)(x + 5) = 0$
 $x = -2, -5$

2. $2x^2 + 2x - 3 = 1$
 $2x^2 + 2x - 4 = 0$
 $(x + 2)(2x - 2) = 0$
 $x = -2, 1$

3. $4x^2 - 28x + 43 = -2$
 $4x^2 - 28x + 45 = 0$
 $(2x - 9)(2x - 5) = 0$
 $x = 4 \frac{1}{2}, 2 \frac{1}{2}$

4. $2x^2 - 16x + 24 = 0$
 $2x^2 - 16x + 24 = 0$
 $(x - 6)(2x - 4) = 0$
 $x = 6, 2$

5. $2x^2 - 18x + 8 = -8$
 $2x^2 - 18x + 16 = 0$
 $(x - 8)(2x - 2) = 0$
 $x = 8, 1$

6. $4x^2 - 32x + 9 = -55$
 $4x^2 - 32x + 64 = 0$
 $(2x - 8)(2x - 8) = 0$
 $x = 4$

7. $2x^2 - 9x - 51 = 5$
 $2x^2 - 9x - 56 = 0$
 $(x - 8)(2x + 7) = 0$
 $x = 8, -3 \frac{1}{2}$

8. $2x^2 + x - 5 = 10$
 $2x^2 + x - 15 = 0$
 $(x + 3)(2x - 5) = 0$
 $x = -3, 2 \frac{1}{2}$

9. $x^2 - 7x + 4 = -6$
 $x^2 - 7x + 10 = 0$
 $(x - 2)(x - 5) = 0$
 $x = 2, 5$

10. $2x^2 - 17x + 15 = -15$
 $2x^2 - 17x + 30 = 0$
 $(2x - 5)(x - 6) = 0$
 $x = 2 \frac{1}{2}, 6$

11. $2x^2 - 9x + 3 = -6$
 $2x^2 - 9x + 9 = 0$
 $(x - 3)(2x - 3) = 0$
 $x = 3, 1 \frac{1}{2}$

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

Resolver Cuadráticas (B)

Resuelva cada ecuación en función de x.

1. $4x^2 - 26x + 29 = -7$

7. $2x^2 - 2x - 3 = 1$

2. $2x^2 - 19x + 26 = -19$

8. $x^2 + 15x + 20 = -36$

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

9. $2x^2 - 7x - 34 = 15$

4. $x^2 + 17x + 39 = -33$

10. $2x^2 - 10x + 4 = -8$

5. $x^2 + x - 27 = 29$

11. $x^2 - 2 = 2$

6. $4x^2 - 8x - 10 = 22$

12. $4x^2 - 12x + 4 = -4$

Resolver Cuadráticas (B) Respuestas

Resuelva cada ecuación en función de x.

1. $4x^2 - 26x + 29 = -7$
 $4x^2 - 26x + 36 = 0$
 $(2x - 4)(2x - 9) = 0$
 $x = 2, 4 \frac{1}{2}$

2. $2x^2 - 19x + 26 = -19$
 $2x^2 - 19x + 45 = 0$
 $(x - 5)(2x - 9) = 0$
 $x = 5, 4 \frac{1}{2}$

3. $2x^2 + 2x - 3 = 9$
 $2x^2 + 2x - 12 = 0$
 $(x + 3)(2x - 4) = 0$
 $x = -3, 2$

4. $x^2 + 17x + 39 = -33$
 $x^2 + 17x + 72 = 0$
 $(x + 8)(x + 9) = 0$
 $x = -8, -9$

5. $x^2 + x - 27 = 29$
 $x^2 + x - 56 = 0$
 $(x + 8)(x - 7) = 0$
 $x = -8, 7$

6. $4x^2 - 8x - 10 = 22$
 $4x^2 - 8x - 32 = 0$
 $(2x - 8)(2x + 4) = 0$
 $x = 4, -2$

7. $2x^2 - 2x - 3 = 1$
 $2x^2 - 2x - 4 = 0$
 $(x - 2)(2x + 2) = 0$
 $x = 2, -1$

8. $x^2 + 15x + 20 = -36$
 $x^2 + 15x + 56 = 0$
 $(x + 7)(x + 8) = 0$
 $x = -7, -8$

9. $2x^2 - 7x - 34 = 15$
 $2x^2 - 7x - 49 = 0$
 $(x - 7)(2x + 7) = 0$
 $x = 7, -3 \frac{1}{2}$

10. $2x^2 - 10x + 4 = -8$
 $2x^2 - 10x + 12 = 0$
 $(2x - 6)(x - 2) = 0$
 $x = 3, 2$

11. $x^2 - 2 = 2$
 $x^2 - 4 = 0$
 $(x + 2)(x - 2) = 0$
 $x = -2, 2$

12. $4x^2 - 12x + 4 = -4$
 $4x^2 - 12x + 8 = 0$
 $(2x - 4)(2x - 2) = 0$
 $x = 2, 1$

Resolver Cuadráticas (C)

Resuelva cada ecuación en función de x.

1. $4x^2 - 32x + 1 = -62$

7. $2x^2 - 3x - 1 = 1$

2. $4x^2 + 2x - 33 = 9$

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

3. $x^2 - 5x - 2 = 34$

9. $2x^2 + 17x + 35 = 0$

4. $x^2 - 10x + 3 = -21$

10. $2x^2 + 20x + 25 = -7$

5. $2x^2 - 16x + 26 = -4$

11. $2x^2 - 25x + 19 = -53$

6. $2x^2 - 5 = 3$

12. $2x^2 + 23x + 27 = -18$

Resolver Cuadráticas (C) Respuestas

Resuelva cada ecuación en función de x.

1. $4x^2 - 32x + 1 = -62$
 $4x^2 - 32x + 63 = 0$
 $(2x - 7)(2x - 9) = 0$
 $x = 3 \frac{1}{2}, 4 \frac{1}{2}$

2. $4x^2 + 2x - 33 = 9$
 $4x^2 + 2x - 42 = 0$
 $(2x - 6)(2x + 7) = 0$
 $x = 3, -3 \frac{1}{2}$

3. $x^2 - 5x - 2 = 34$
 $x^2 - 5x - 36 = 0$
 $(x - 9)(x + 4) = 0$
 $x = 9, -4$

4. $x^2 - 10x + 3 = -21$
 $x^2 - 10x + 24 = 0$
 $(x - 6)(x - 4) = 0$
 $x = 6, 4$

5. $2x^2 - 16x + 26 = -4$
 $2x^2 - 16x + 30 = 0$
 $(2x - 6)(x - 5) = 0$
 $x = 3, 5$

6. $2x^2 - 5 = 3$
 $2x^2 - 8 = 0$
 $(2x + 4)(x - 2) = 0$
 $x = -2, 2$

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

8. $x^2 - 7x + 4 = -2$
 $x^2 - 7x + 6 = 0$
 $(x - 6)(x - 1) = 0$
 $x = 6, 1$

9. $2x^2 + 17x + 35 = 0$
 $2x^2 + 17x + 35 = 0$
 $(x + 5)(2x + 7) = 0$
 $x = -5, -3 \frac{1}{2}$

10. $2x^2 + 20x + 25 = -7$
 $2x^2 + 20x + 32 = 0$
 $(x + 8)(2x + 4) = 0$
 $x = -8, -2$

11. $2x^2 - 25x + 19 = -53$
 $2x^2 - 25x + 72 = 0$
 $(x - 8)(2x - 9) = 0$
 $x = 8, 4 \frac{1}{2}$

12. $2x^2 + 23x + 27 = -18$
 $2x^2 + 23x + 45 = 0$
 $(x + 9)(2x + 5) = 0$
 $x = -9, -2 \frac{1}{2}$

Resolver Cuadráticas (D)

Resuelva cada ecuación en función de x.

1. $4x^2 + 30x + 39 = -15$

7. $x^2 + 16x + 23 = -41$

2. $4x^2 - 18x + 1 = -7$

8. $x^2 - 10x + 15 = -1$

3. $2x^2 + 17x - 2 = 7$

9. $x^2 + 9x + 8 = -6$

4. $x^2 - 15x + 35 = -21$

10. $x^2 - 23 = 41$

5. $2x^2 + 15x - 1 = 7$

11. $2x^2 - 18x + 10 = -26$

6. $4x^2 + 4x - 42 = 6$

12. $2x^2 - 14x + 3 = -9$

Resolver Cuadráticas (D) Respuestas

Resuelva cada ecuación en función de x.

1. $4x^2 + 30x + 39 = -15$
 $4x^2 + 30x + 54 = 0$
 $(2x + 9)(2x + 6) = 0$
 $x = -4 \frac{1}{2}, -3$

2. $4x^2 - 18x + 1 = -7$
 $4x^2 - 18x + 8 = 0$
 $(2x - 8)(2x - 1) = 0$
 $x = 4, \frac{1}{2}$

3. $2x^2 + 17x - 2 = 7$
 $2x^2 + 17x - 9 = 0$
 $(2x - 1)(x + 9) = 0$
 $x = \frac{1}{2}, -9$

4. $x^2 - 15x + 35 = -21$
 $x^2 - 15x + 56 = 0$
 $(x - 7)(x - 8) = 0$
 $x = 7, 8$

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

6. $4x^2 + 4x - 42 = 6$
 $4x^2 + 4x - 48 = 0$
 $(2x - 6)(2x + 8) = 0$
 $x = 3, -4$

7. $x^2 + 16x + 23 = -41$
 $x^2 + 16x + 64 = 0$
 $(x + 8)(x + 8) = 0$
 $x = -8$

8. $x^2 - 10x + 15 = -1$
 $x^2 - 10x + 16 = 0$
 $(x - 2)(x - 8) = 0$
 $x = 2, 8$

9. $x^2 + 9x + 8 = -6$
 $x^2 + 9x + 14 = 0$
 $(x + 2)(x + 7) = 0$
 $x = -2, -7$

10. $x^2 - 23 = 41$
 $x^2 - 64 = 0$
 $(x - 8)(x + 8) = 0$
 $x = 8, -8$

11. $2x^2 - 18x + 10 = -26$
 $2x^2 - 18x + 36 = 0$
 $(x - 6)(2x - 6) = 0$
 $x = 6, 3$

12. $2x^2 - 14x + 3 = -9$
 $2x^2 - 14x + 12 = 0$
 $(x - 6)(2x - 2) = 0$
 $x = 6, 1$

Resolver Cuadráticas (E)

Resuelva cada ecuación en función de x.

1. $2x^2 + 14x - 6 = 10$

7. $2x^2 + 4x - 38 = 10$

2. $x^2 - 5x - 6 = 8$

8. $2x^2 + 15x - 15 = 12$

3. $2x^2 + 15x = -7$

9. $2x^2 + 6x - 4 = 32$

4. $2x^2 - 22x + 15 = -21$

10. $4x^2 - 2x - 16 = 4$

5. $2x^2 - 12x + 8 = -10$

11. $2x^2 + 9x - 1 = 4$

6. $2x^2 + 16x + 26 = -4$

12. $2x^2 - 20x + 7 = -41$

Resolver Cuadráticas (E) Respuestas

Resuelva cada ecuación en función de x.

1. $2x^2 + 14x - 6 = 10$
 $2x^2 + 14x - 16 = 0$
 $(2x - 2)(x + 8) = 0$
 $x = 1, -8$

2. $x^2 - 5x - 6 = 8$
 $x^2 - 5x - 14 = 0$
 $(x + 2)(x - 7) = 0$
 $x = -2, 7$

3. $2x^2 + 15x = -7$
 $2x^2 + 15x + 7 = 0$
 $(2x + 1)(x + 7) = 0$
 $x = -1/2, -7$

4. $2x^2 - 22x + 15 = -21$
 $2x^2 - 22x + 36 = 0$
 $(x - 9)(2x - 4) = 0$
 $x = 9, 2$

5. $2x^2 - 12x + 8 = -10$
 $2x^2 - 12x + 18 = 0$
 $(2x - 6)(x - 3) = 0$
 $x = 3$

6. $2x^2 + 16x + 26 = -4$
 $2x^2 + 16x + 30 = 0$
 $(2x + 6)(x + 5) = 0$
 $x = -3, -5$

7. $2x^2 + 4x - 38 = 10$
 $2x^2 + 4x - 48 = 0$
 $(x + 6)(2x - 8) = 0$
 $x = -6, 4$

8. $2x^2 + 15x - 15 = 12$
 $2x^2 + 15x - 27 = 0$
 $(2x - 3)(x + 9) = 0$
 $x = 1\ 1/2, -9$

9. $2x^2 + 6x - 4 = 32$
 $2x^2 + 6x - 36 = 0$
 $(x + 6)(2x - 6) = 0$
 $x = -6, 3$

10. $4x^2 - 2x - 16 = 4$
 $4x^2 - 2x - 20 = 0$
 $(2x - 5)(2x + 4) = 0$
 $x = 2\ 1/2, -2$

11. $2x^2 + 9x - 1 = 4$
 $2x^2 + 9x - 5 = 0$
 $(2x - 1)(x + 5) = 0$
 $x = 1/2, -5$

12. $2x^2 - 20x + 7 = -41$
 $2x^2 - 20x + 48 = 0$
 $(2x - 8)(x - 6) = 0$
 $x = 4, 6$

Resolver Cuadráticas (F)

Resuelva cada ecuación en función de x.

1. $x^2 + 8x - 2 = 7$

7. $4x^2 - 6x + 2 = 0$

2. $2x^2 - 14x + 11 = -1$

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

3. $2x^2 + x - 1 = 2$

9. $2x^2 - 17x + 17 = -19$

4. $4x^2 - 14x + 2 = -4$

10. $x^2 + x - 25 = 17$

5. $2x^2 - 15x + 18 = -10$

11. $x^2 - 15x + 31 = -25$

6. $2x^2 - 10x - 42 = 6$

12. $2x^2 + 24x + 6 = -58$

Resolver Cuadráticas (F) Respuestas

Resuelva cada ecuación en función de x.

1. $x^2 + 8x - 2 = 7$
 $x^2 + 8x - 9 = 0$
 $(x - 1)(x + 9) = 0$
 $x = 1, -9$

2. $2x^2 - 14x + 11 = -1$
 $2x^2 - 14x + 12 = 0$
 $(x - 6)(2x - 2) = 0$
 $x = 6, 1$

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

4. $4x^2 - 14x + 2 = -4$
 $4x^2 - 14x + 6 = 0$
 $(2x - 1)(2x - 6) = 0$
 $x = \frac{1}{2}, 3$

5. $2x^2 - 15x + 18 = -10$
 $2x^2 - 15x + 28 = 0$
 $(2x - 7)(x - 4) = 0$
 $x = 3 \frac{1}{2}, 4$

6. $2x^2 - 10x - 42 = 6$
 $2x^2 - 10x - 48 = 0$
 $(2x + 6)(x - 8) = 0$
 $x = -3, 8$

7. $4x^2 - 6x + 2 = 0$
 $4x^2 - 6x + 2 = 0$
 $(2x - 1)(2x - 2) = 0$
 $x = \frac{1}{2}, 1$

8. $x^2 - x - 21 = 9$
 $x^2 - x - 30 = 0$
 $(x - 6)(x + 5) = 0$
 $x = 6, -5$

9. $2x^2 - 17x + 17 = -19$
 $2x^2 - 17x + 36 = 0$
 $(x - 4)(2x - 9) = 0$
 $x = 4, 4 \frac{1}{2}$

10. $x^2 + x - 25 = 17$
 $x^2 + x - 42 = 0$
 $(x + 7)(x - 6) = 0$
 $x = -7, 6$

11. $x^2 - 15x + 31 = -25$
 $x^2 - 15x + 56 = 0$
 $(x - 8)(x - 7) = 0$
 $x = 8, 7$

12. $2x^2 + 24x + 6 = -58$
 $2x^2 + 24x + 64 = 0$
 $(x + 8)(2x + 8) = 0$
 $x = -8, -4$

Resolver Cuadráticas (G)

Resuelva cada ecuación en función de x.

1. $x^2 + 11x + 14 = -4$

7. $2x^2 - 27x + 8 = -73$

2. $4x^2 + 18x + 14 = -6$

8. $2x^2 + x - 22 = 6$

3. $2x^2 + x - 2 = 26$

9. $x^2 - 13x + 36 = 0$

4. $2x^2 - 27 = 5$

10. $2x^2 + 10x - 10 = 38$

5. $2x^2 + 3x - 30 = 5$

11. $2x^2 + 3x - 41 = 13$

6. $x^2 + 10x + 21 = 0$

12. $2x^2 - 13x - 17 = 7$

Resolver Cuadráticas (G) Respuestas

Resuelva cada ecuación en función de x.

1. $x^2 + 11x + 14 = -4$
 $x^2 + 11x + 18 = 0$
 $(x + 9)(x + 2) = 0$
 $x = -9, -2$

2. $4x^2 + 18x + 14 = -6$
 $4x^2 + 18x + 20 = 0$
 $(2x + 4)(2x + 5) = 0$
 $x = -2, -2 \frac{1}{2}$

3. $2x^2 + x - 2 = 26$
 $2x^2 + x - 28 = 0$
 $(x + 4)(2x - 7) = 0$
 $x = -4, 3 \frac{1}{2}$

4. $2x^2 - 27 = 5$
 $2x^2 - 32 = 0$
 $(2x - 8)(x + 4) = 0$
 $x = 4, -4$

5. $2x^2 + 3x - 30 = 5$
 $2x^2 + 3x - 35 = 0$
 $(2x - 7)(x + 5) = 0$
 $x = 3 \frac{1}{2}, -5$

6. $x^2 + 10x + 21 = 0$
 $x^2 + 10x + 21 = 0$
 $(x + 7)(x + 3) = 0$
 $x = -7, -3$

7. $2x^2 - 27x + 8 = -73$
 $2x^2 - 27x + 81 = 0$
 $(2x - 9)(x - 9) = 0$
 $x = 4 \frac{1}{2}, 9$

8. $2x^2 + x - 22 = 6$
 $2x^2 + x - 28 = 0$
 $(2x - 7)(x + 4) = 0$
 $x = 3 \frac{1}{2}, -4$

9. $x^2 - 13x + 36 = 0$
 $x^2 - 13x + 36 = 0$
 $(x - 4)(x - 9) = 0$
 $x = 4, 9$

10. $2x^2 + 10x - 10 = 38$
 $2x^2 + 10x - 48 = 0$
 $(x + 8)(2x - 6) = 0$
 $x = -8, 3$

11. $2x^2 + 3x - 41 = 13$
 $2x^2 + 3x - 54 = 0$
 $(x + 6)(2x - 9) = 0$
 $x = -6, 4 \frac{1}{2}$

12. $2x^2 - 13x - 17 = 7$
 $2x^2 - 13x - 24 = 0$
 $(x - 8)(2x + 3) = 0$
 $x = 8, -1 \frac{1}{2}$

Resolver Cuadráticas (H)

Resuelva cada ecuación en función de x.

1. $2x^2 + 8x = -6$

7. $2x^2 - 8x + 6 = 0$

2. $4x^2 + 20x = -9$

8. $4x^2 - 16x = -7$

3. $2x^2 + 2x - 7 = 17$

9. $2x^2 - 11x + 1 = -4$

4. $2x^2 - x - 3 = 12$

10. $4x^2 - 16x + 5 = -7$

5. $x^2 + 7x - 5 = 13$

11. $2x^2 + 4x - 11 = 5$

6. $4x^2 - 22x + 5 = -23$

12. $4x^2 - 14x - 5 = 13$

Resolver Cuadráticas (H) Respuestas

Resuelva cada ecuación en función de x.

1. $2x^2 + 8x = -6$
 $2x^2 + 8x + 6 = 0$
 $(x + 3)(2x + 2) = 0$
 $x = -3, -1$

2. $4x^2 + 20x = -9$
 $4x^2 + 20x + 9 = 0$
 $(2x + 9)(2x + 1) = 0$
 $x = -4 \frac{1}{2}, -\frac{1}{2}$

3. $2x^2 + 2x - 7 = 17$
 $2x^2 + 2x - 24 = 0$
 $(x - 3)(2x + 8) = 0$
 $x = 3, -4$

4. $2x^2 - x - 3 = 12$
 $2x^2 - x - 15 = 0$
 $(x - 3)(2x + 5) = 0$
 $x = 3, -2 \frac{1}{2}$

5. $x^2 + 7x - 5 = 13$
 $x^2 + 7x - 18 = 0$
 $(x + 9)(x - 2) = 0$
 $x = -9, 2$

6. $4x^2 - 22x + 5 = -23$
 $4x^2 - 22x + 28 = 0$
 $(2x - 7)(2x - 4) = 0$
 $x = 3 \frac{1}{2}, 2$

7. $2x^2 - 8x + 6 = 0$
 $2x^2 - 8x + 6 = 0$
 $(x - 3)(2x - 2) = 0$
 $x = 3, 1$

8. $4x^2 - 16x = -7$
 $4x^2 - 16x + 7 = 0$
 $(2x - 1)(2x - 7) = 0$
 $x = \frac{1}{2}, 3 \frac{1}{2}$

9. $2x^2 - 11x + 1 = -4$
 $2x^2 - 11x + 5 = 0$
 $(2x - 1)(x - 5) = 0$
 $x = \frac{1}{2}, 5$

10. $4x^2 - 16x + 5 = -7$
 $4x^2 - 16x + 12 = 0$
 $(2x - 2)(2x - 6) = 0$
 $x = 1, 3$

11. $2x^2 + 4x - 11 = 5$
 $2x^2 + 4x - 16 = 0$
 $(2x + 8)(x - 2) = 0$
 $x = -4, 2$

12. $4x^2 - 14x - 5 = 13$
 $4x^2 - 14x - 18 = 0$
 $(2x - 9)(2x + 2) = 0$
 $x = 4 \frac{1}{2}, -1$

Resolver Cuadráticas (I)

Resuelva cada ecuación en función de x.

1. $2x^2 - 11x + 8 = -1$

7. $2x^2 - 19x + 23 = -12$

2. $2x^2 + 11x + 5 = -7$

8. $2x^2 + 3x - 16 = 19$

3. $x^2 + 9x + 4 = -14$

9. $2x^2 + 17x + 30 = -5$

4. $x^2 + 3x - 12 = 16$

10. $2x^2 + 4x - 10 = 6$

5. $2x^2 + 20x + 13 = -5$

11. $2x^2 + 16x + 28 = -2$

6. $x^2 - 13x + 15 = -21$

12. $2x^2 - 13x + 10 = -8$

Resolver Cuadráticas (I) Respuestas

Resuelva cada ecuación en función de x.

1. $2x^2 - 11x + 8 = -1$
 $2x^2 - 11x + 9 = 0$
 $(x - 1)(2x - 9) = 0$
 $x = 1, 4 \frac{1}{2}$

2. $2x^2 + 11x + 5 = -7$
 $2x^2 + 11x + 12 = 0$
 $(2x + 3)(x + 4) = 0$
 $x = -1 \frac{1}{2}, -4$

3. $x^2 + 9x + 4 = -14$
 $x^2 + 9x + 18 = 0$
 $(x + 6)(x + 3) = 0$
 $x = -6, -3$

4. $x^2 + 3x - 12 = 16$
 $x^2 + 3x - 28 = 0$
 $(x + 7)(x - 4) = 0$
 $x = -7, 4$

5. $2x^2 + 20x + 13 = -5$
 $2x^2 + 20x + 18 = 0$
 $(2x + 2)(x + 9) = 0$
 $x = -1, -9$

6. $x^2 - 13x + 15 = -21$
 $x^2 - 13x + 36 = 0$
 $(x - 4)(x - 9) = 0$
 $x = 4, 9$

7. $2x^2 - 19x + 23 = -12$
 $2x^2 - 19x + 35 = 0$
 $(x - 7)(2x - 5) = 0$
 $x = 7, 2 \frac{1}{2}$

8. $2x^2 + 3x - 16 = 19$
 $2x^2 + 3x - 35 = 0$
 $(x + 5)(2x - 7) = 0$
 $x = -5, 3 \frac{1}{2}$

9. $2x^2 + 17x + 30 = -5$
 $2x^2 + 17x + 35 = 0$
 $(2x + 7)(x + 5) = 0$
 $x = -3 \frac{1}{2}, -5$

10. $2x^2 + 4x - 10 = 6$
 $2x^2 + 4x - 16 = 0$
 $(2x + 8)(x - 2) = 0$
 $x = -4, 2$

11. $2x^2 + 16x + 28 = -2$
 $2x^2 + 16x + 30 = 0$
 $(x + 5)(2x + 6) = 0$
 $x = -5, -3$

12. $2x^2 - 13x + 10 = -8$
 $2x^2 - 13x + 18 = 0$
 $(2x - 9)(x - 2) = 0$
 $x = 4 \frac{1}{2}, 2$

Resolver Cuadráticas (J)

Resuelva cada ecuación en función de x.

1. $2x^2 + 9x + 1 = -3$

7. $2x^2 - 21x + 18 = -36$

2. $2x^2 - 15x + 2 = -23$

8. $2x^2 + 23x + 27 = -29$

3. $2x^2 - 6x - 5 = 15$

9. $2x^2 - 13x + 4 = -2$

4. $4x^2 - 14x + 9 = -3$

10. $4x^2 - 30x + 6 = -50$

5. $x^2 - 2x - 1 = 14$

11. $4x^2 - 20x = -9$

6. $2x^2 - 22x + 4 = -32$

12. $4x^2 + 6x - 2 = 8$

Resolver Cuadráticas (J) Respuestas

Resuelva cada ecuación en función de x.

1. $2x^2 + 9x + 1 = -3$
 $2x^2 + 9x + 4 = 0$
 $(2x + 1)(x + 4) = 0$
 $x = -1/2, -4$

2. $2x^2 - 15x + 2 = -23$
 $2x^2 - 15x + 25 = 0$
 $(x - 5)(2x - 5) = 0$
 $x = 5, 2\ 1/2$

3. $2x^2 - 6x - 5 = 15$
 $2x^2 - 6x - 20 = 0$
 $(2x + 4)(x - 5) = 0$
 $x = -2, 5$

4. $4x^2 - 14x + 9 = -3$
 $4x^2 - 14x + 12 = 0$
 $(2x - 3)(2x - 4) = 0$
 $x = 1\ 1/2, 2$

5. $x^2 - 2x - 1 = 14$
 $x^2 - 2x - 15 = 0$
 $(x + 3)(x - 5) = 0$
 $x = -3, 5$

6. $2x^2 - 22x + 4 = -32$
 $2x^2 - 22x + 36 = 0$
 $(x - 9)(2x - 4) = 0$
 $x = 9, 2$

7. $2x^2 - 21x + 18 = -36$
 $2x^2 - 21x + 54 = 0$
 $(x - 6)(2x - 9) = 0$
 $x = 6, 4\ 1/2$

8. $2x^2 + 23x + 27 = -29$
 $2x^2 + 23x + 56 = 0$
 $(2x + 7)(x + 8) = 0$
 $x = -3\ 1/2, -8$

9. $2x^2 - 13x + 4 = -2$
 $2x^2 - 13x + 6 = 0$
 $(2x - 1)(x - 6) = 0$
 $x = 1/2, 6$

10. $4x^2 - 30x + 6 = -50$
 $4x^2 - 30x + 56 = 0$
 $(2x - 7)(2x - 8) = 0$
 $x = 3\ 1/2, 4$

11. $4x^2 - 20x = -9$
 $4x^2 - 20x + 9 = 0$
 $(2x - 1)(2x - 9) = 0$
 $x = 1/2, 4\ 1/2$

12. $4x^2 + 6x - 2 = 8$
 $4x^2 + 6x - 10 = 0$
 $(2x + 5)(2x - 2) = 0$
 $x = -2\ 1/2, 1$