

Resolver Cuadráticas (A)

Resuelva cada ecuación en función de x.

$$1. \quad 45x^2 + 79x + 30 = 0$$

$$7. \quad 40x^2 + 101x + 63 = 0$$

$$2. \quad 42x^2 + 40x + 8 = 0$$

$$8. \quad 63x^2 + 73x + 20 = 0$$

$$3. \quad 32x^2 + 80x + 48 = 0$$

$$9. \quad 7x^2 + 51x + 14 = 0$$

$$4. \quad 6x^2 + 27x + 27 = 0$$

$$10. \quad 36x^2 + 42x + 12 = 0$$

$$5. \quad 4x^2 + 25x + 6 = 0$$

$$11. \quad 72x^2 + 129x + 54 = 0$$

$$6. \quad 49x^2 + 77x + 30 = 0$$

$$12. \quad 8x^2 + 71x + 56 = 0$$

Resolver Cuadráticas (A) Respuestas

Resuelva cada ecuación en función de x.

1. $45x^2 + 79x + 30 = 0$
 $(5x + 6)(9x + 5) = 0$
 $x = -1 \frac{1}{5}, -\frac{5}{9}$

7. $40x^2 + 101x + 63 = 0$
 $(8x + 9)(5x + 7) = 0$
 $x = -1 \frac{1}{8}, -1 \frac{2}{5}$

2. $42x^2 + 40x + 8 = 0$
 $(7x + 2)(6x + 4) = 0$
 $x = -\frac{2}{7}, -\frac{2}{3}$

8. $63x^2 + 73x + 20 = 0$
 $(7x + 5)(9x + 4) = 0$
 $x = -\frac{5}{7}, -\frac{4}{9}$

3. $32x^2 + 80x + 48 = 0$
 $(4x + 6)(8x + 8) = 0$
 $x = -1 \frac{1}{2}, -1$

9. $7x^2 + 51x + 14 = 0$
 $(7x + 2)(x + 7) = 0$
 $x = -\frac{2}{7}, -7$

4. $6x^2 + 27x + 27 = 0$
 $(x + 3)(6x + 9) = 0$
 $x = -3, -1 \frac{1}{2}$

10. $36x^2 + 42x + 12 = 0$
 $(9x + 6)(4x + 2) = 0$
 $x = -\frac{2}{3}, -\frac{1}{2}$

5. $4x^2 + 25x + 6 = 0$
 $(4x + 1)(x + 6) = 0$
 $x = -\frac{1}{4}, -6$

11. $72x^2 + 129x + 54 = 0$
 $(8x + 9)(9x + 6) = 0$
 $x = -1 \frac{1}{8}, -\frac{2}{3}$

6. $49x^2 + 77x + 30 = 0$
 $(7x + 5)(7x + 6) = 0$
 $x = -\frac{5}{7}, -\frac{6}{7}$

12. $8x^2 + 71x + 56 = 0$
 $(8x + 7)(x + 8) = 0$
 $x = -\frac{7}{8}, -8$

Resolver Cuadráticas (B)

Resuelva cada ecuación en función de x.

$$1. \quad 32x^2 + 80x + 48 = 0$$

$$7. \quad 24x^2 + 54x + 27 = 0$$

$$2. \quad 45x^2 + 98x + 49 = 0$$

$$8. \quad 3x^2 + 30x + 27 = 0$$

$$3. \quad 35x^2 + 84x + 49 = 0$$

$$9. \quad 35x^2 + 49x + 14 = 0$$

$$4. \quad 81x^2 + 81x + 8 = 0$$

$$10. \quad 6x^2 + 25x + 21 = 0$$

$$5. \quad 27x^2 + 42x + 15 = 0$$

$$11. \quad 12x^2 + 46x + 14 = 0$$

$$6. \quad 3x^2 + 26x + 48 = 0$$

$$12. \quad 16x^2 + 78x + 56 = 0$$

Resolver Cuadráticas (B) Respuestas

Resuelva cada ecuación en función de x.

1. $32x^2 + 80x + 48 = 0$
 $(4x + 6)(8x + 8) = 0$
 $x = -1 \frac{1}{2}, -1$

7. $24x^2 + 54x + 27 = 0$
 $(6x + 9)(4x + 3) = 0$
 $x = -1 \frac{1}{2}, -\frac{3}{4}$

2. $45x^2 + 98x + 49 = 0$
 $(9x + 7)(5x + 7) = 0$
 $x = -\frac{7}{9}, -1 \frac{2}{5}$

8. $3x^2 + 30x + 27 = 0$
 $(x + 9)(3x + 3) = 0$
 $x = -9, -1$

3. $35x^2 + 84x + 49 = 0$
 $(7x + 7)(5x + 7) = 0$
 $x = -1, -1 \frac{2}{5}$

9. $35x^2 + 49x + 14 = 0$
 $(5x + 2)(7x + 7) = 0$
 $x = -\frac{2}{5}, -1$

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

10. $6x^2 + 25x + 21 = 0$
 $(6x + 7)(x + 3) = 0$
 $x = -1 \frac{1}{6}, -3$

5. $27x^2 + 42x + 15 = 0$
 $(3x + 3)(9x + 5) = 0$
 $x = -1, -\frac{5}{9}$

11. $12x^2 + 46x + 14 = 0$
 $(2x + 7)(6x + 2) = 0$
 $x = -3 \frac{1}{2}, -\frac{1}{3}$

6. $3x^2 + 26x + 48 = 0$
 $(3x + 8)(x + 6) = 0$
 $x = -2 \frac{2}{3}, -6$

12. $16x^2 + 78x + 56 = 0$
 $(8x + 7)(2x + 8) = 0$
 $x = -\frac{7}{8}, -4$

Resolver Cuadráticas (C)

Resuelva cada ecuación en función de x.

$$1. \quad 5x^2 + 9x + 4 = 0$$

$$7. \quad 10x^2 + 50x + 40 = 0$$

$$2. \quad 12x^2 + 51x + 45 = 0$$

$$8. \quad 25x^2 + 55x + 28 = 0$$

$$3. \quad 6x^2 + 63x + 81 = 0$$

$$9. \quad 6x^2 + 20x + 14 = 0$$

$$4. \quad 18x^2 + 24x + 6 = 0$$

$$10. \quad 5x^2 + 16x + 3 = 0$$

$$5. \quad 35x^2 + 89x + 56 = 0$$

$$11. \quad 54x^2 + 60x + 16 = 0$$

$$6. \quad 20x^2 + 43x + 21 = 0$$

$$12. \quad 6x^2 + 47x + 35 = 0$$

Resolver Cuadráticas (C) Respuestas

Resuelva cada ecuación en función de x.

1. $5x^2 + 9x + 4 = 0$

$(x + 1)(5x + 4) = 0$

$x = -1, -4/5$

7. $10x^2 + 50x + 40 = 0$

$(2x + 8)(5x + 5) = 0$

$x = -4, -1$

2. $12x^2 + 51x + 45 = 0$

$(4x + 5)(3x + 9) = 0$

$x = -1 \frac{1}{4}, -3$

8. $25x^2 + 55x + 28 = 0$

$(5x + 4)(5x + 7) = 0$

$x = -4/5, -1 \frac{2}{5}$

3. $6x^2 + 63x + 81 = 0$

$(6x + 9)(x + 9) = 0$

$x = -1 \frac{1}{2}, -9$

9. $6x^2 + 20x + 14 = 0$

$(2x + 2)(3x + 7) = 0$

$x = -1, -2 \frac{1}{3}$

4. $18x^2 + 24x + 6 = 0$

$(9x + 3)(2x + 2) = 0$

$x = -1/3, -1$

10. $5x^2 + 16x + 3 = 0$

$(5x + 1)(x + 3) = 0$

$x = -1/5, -3$

5. $35x^2 + 89x + 56 = 0$

$(5x + 7)(7x + 8) = 0$

$x = -1 \frac{2}{5}, -1 \frac{1}{7}$

11. $54x^2 + 60x + 16 = 0$

$(6x + 4)(9x + 4) = 0$

$x = -2/3, -4/9$

6. $20x^2 + 43x + 21 = 0$

$(5x + 7)(4x + 3) = 0$

$x = -1 \frac{2}{5}, -\frac{3}{4}$

12. $6x^2 + 47x + 35 = 0$

$(x + 7)(6x + 5) = 0$

$x = -7, -\frac{5}{6}$

Resolver Cuadráticas (D)

Resuelva cada ecuación en función de x.

$$1. \quad 7x^2 + 28x + 21 = 0$$

$$7. \quad 2x^2 + 16x + 30 = 0$$

$$2. \quad 45x^2 + 33x + 6 = 0$$

$$8. \quad 81x^2 + 135x + 54 = 0$$

$$3. \quad 7x^2 + 61x + 40 = 0$$

$$9. \quad 4x^2 + 8x + 3 = 0$$

$$4. \quad 45x^2 + 116x + 63 = 0$$

$$10. \quad 14x^2 + 65x + 9 = 0$$

$$5. \quad 72x^2 + 52x + 8 = 0$$

$$11. \quad 5x^2 + 23x + 12 = 0$$

$$6. \quad 36x^2 + 60x + 16 = 0$$

$$12. \quad 4x^2 + 17x + 15 = 0$$

Resolver Cuadráticas (D) Respuestas

Resuelva cada ecuación en función de x.

1. $7x^2 + 28x + 21 = 0$
 $(x + 3)(7x + 7) = 0$
 $x = -3, -1$

7. $2x^2 + 16x + 30 = 0$
 $(2x + 6)(x + 5) = 0$
 $x = -3, -5$

2. $45x^2 + 33x + 6 = 0$
 $(5x + 2)(9x + 3) = 0$
 $x = -2/5, -1/3$

8. $81x^2 + 135x + 54 = 0$
 $(9x + 9)(9x + 6) = 0$
 $x = -1, -2/3$

3. $7x^2 + 61x + 40 = 0$
 $(x + 8)(7x + 5) = 0$
 $x = -8, -5/7$

9. $4x^2 + 8x + 3 = 0$
 $(2x + 3)(2x + 1) = 0$
 $x = -1 1/2, -1/2$

4. $45x^2 + 116x + 63 = 0$
 $(5x + 9)(9x + 7) = 0$
 $x = -1 4/5, -7/9$

10. $14x^2 + 65x + 9 = 0$
 $(2x + 9)(7x + 1) = 0$
 $x = -4 1/2, -1/7$

5. $72x^2 + 52x + 8 = 0$
 $(8x + 4)(9x + 2) = 0$
 $x = -1/2, -2/9$

11. $5x^2 + 23x + 12 = 0$
 $(x + 4)(5x + 3) = 0$
 $x = -4, -3/5$

6. $36x^2 + 60x + 16 = 0$
 $(6x + 8)(6x + 2) = 0$
 $x = -1 1/3, -1/3$

12. $4x^2 + 17x + 15 = 0$
 $(x + 3)(4x + 5) = 0$
 $x = -3, -1 1/4$

Resolver Cuadráticas (E)

Resuelva cada ecuación en función de x.

$$1. \quad 6x^2 + 35x + 25 = 0$$

$$7. \quad 81x^2 + 63x + 10 = 0$$

$$2. \quad 45x^2 + 14x + 1 = 0$$

$$8. \quad 10x^2 + 22x + 4 = 0$$

$$3. \quad 45x^2 + 53x + 14 = 0$$

$$9. \quad 4x^2 + 6x + 2 = 0$$

$$4. \quad 15x^2 + 35x + 20 = 0$$

$$10. \quad 42x^2 + 38x + 8 = 0$$

$$5. \quad 56x^2 + 30x + 4 = 0$$

$$11. \quad 4x^2 + 40x + 64 = 0$$

$$6. \quad 18x^2 + 61x + 40 = 0$$

$$12. \quad 8x^2 + 51x + 18 = 0$$

Resolver Cuadráticas (E) Respuestas

Resuelva cada ecuación en función de x.

1. $6x^2 + 35x + 25 = 0$
 $(x + 5)(6x + 5) = 0$
 $x = -5, -5/6$

7. $81x^2 + 63x + 10 = 0$
 $(9x + 5)(9x + 2) = 0$
 $x = -5/9, -2/9$

2. $45x^2 + 14x + 1 = 0$
 $(9x + 1)(5x + 1) = 0$
 $x = -1/9, -1/5$

8. $10x^2 + 22x + 4 = 0$
 $(2x + 4)(5x + 1) = 0$
 $x = -2, -1/5$

3. $45x^2 + 53x + 14 = 0$
 $(9x + 7)(5x + 2) = 0$
 $x = -7/9, -2/5$

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

4. $15x^2 + 35x + 20 = 0$
 $(3x + 4)(5x + 5) = 0$
 $x = -1\frac{1}{3}, -1$

10. $42x^2 + 38x + 8 = 0$
 $(7x + 4)(6x + 2) = 0$
 $x = -4/7, -1/3$

5. $56x^2 + 30x + 4 = 0$
 $(8x + 2)(7x + 2) = 0$
 $x = -1/4, -2/7$

11. $4x^2 + 40x + 64 = 0$
 $(4x + 8)(x + 8) = 0$
 $x = -2, -8$

6. $18x^2 + 61x + 40 = 0$
 $(9x + 8)(2x + 5) = 0$
 $x = -8/9, -2\frac{1}{2}$

12. $8x^2 + 51x + 18 = 0$
 $(x + 6)(8x + 3) = 0$
 $x = -6, -3/8$

Resolver Cuadráticas (F)

Resuelva cada ecuación en función de x.

$$1. \quad 8x^2 + 41x + 36 = 0$$

$$7. \quad 8x^2 + 39x + 28 = 0$$

$$2. \quad 12x^2 + 16x + 4 = 0$$

$$8. \quad 49x^2 + 112x + 64 = 0$$

$$3. \quad 16x^2 + 40x + 24 = 0$$

$$9. \quad 5x^2 + 49x + 72 = 0$$

$$4. \quad 25x^2 + 55x + 24 = 0$$

$$10. \quad 40x^2 + 58x + 12 = 0$$

$$5. \quad 7x^2 + 43x + 40 = 0$$

$$11. \quad 15x^2 + 14x + 3 = 0$$

$$6. \quad 21x^2 + 66x + 9 = 0$$

$$12. \quad 24x^2 + 26x + 6 = 0$$

Resolver Cuadráticas (F) Respuestas

Resuelva cada ecuación en función de x.

1. $8x^2 + 41x + 36 = 0$
 $(x + 4)(8x + 9) = 0$
 $x = -4, -1 \frac{1}{8}$

7. $8x^2 + 39x + 28 = 0$
 $(8x + 7)(x + 4) = 0$
 $x = -\frac{7}{8}, -4$

2. $12x^2 + 16x + 4 = 0$
 $(3x + 1)(4x + 4) = 0$
 $x = -\frac{1}{3}, -1$

8. $49x^2 + 112x + 64 = 0$
 $(7x + 8)(7x + 8) = 0$
 $x = -1 \frac{1}{7}$

3. $16x^2 + 40x + 24 = 0$
 $(2x + 3)(8x + 8) = 0$
 $x = -1 \frac{1}{2}, -1$

9. $5x^2 + 49x + 72 = 0$
 $(5x + 9)(x + 8) = 0$
 $x = -1 \frac{4}{5}, -8$

4. $25x^2 + 55x + 24 = 0$
 $(5x + 8)(5x + 3) = 0$
 $x = -1 \frac{3}{5}, -\frac{3}{5}$

10. $40x^2 + 58x + 12 = 0$
 $(5x + 6)(8x + 2) = 0$
 $x = -1 \frac{1}{5}, -\frac{1}{4}$

5. $7x^2 + 43x + 40 = 0$
 $(x + 5)(7x + 8) = 0$
 $x = -5, -1 \frac{1}{7}$

11. $15x^2 + 14x + 3 = 0$
 $(5x + 3)(3x + 1) = 0$
 $x = -\frac{3}{5}, -\frac{1}{3}$

6. $21x^2 + 66x + 9 = 0$
 $(3x + 9)(7x + 1) = 0$
 $x = -3, -\frac{1}{7}$

12. $24x^2 + 26x + 6 = 0$
 $(8x + 6)(3x + 1) = 0$
 $x = -\frac{3}{4}, -\frac{1}{3}$

Resolver Cuadráticas (G)

Resuelva cada ecuación en función de x.

$$1. \quad 16x^2 + 40x + 24 = 0$$

$$7. \quad 63x^2 + 86x + 16 = 0$$

$$2. \quad 10x^2 + 38x + 36 = 0$$

$$8. \quad 56x^2 + 29x + 3 = 0$$

$$3. \quad 40x^2 + 36x + 8 = 0$$

$$9. \quad 10x^2 + 39x + 14 = 0$$

$$4. \quad 6x^2 + 13x + 6 = 0$$

$$10. \quad 12x^2 + 38x + 30 = 0$$

$$5. \quad 81x^2 + 90x + 16 = 0$$

$$11. \quad 3x^2 + 11x + 6 = 0$$

$$6. \quad 36x^2 + 35x + 6 = 0$$

$$12. \quad 6x^2 + 39x + 18 = 0$$

Resolver Cuadráticas (G) Respuestas

Resuelva cada ecuación en función de x.

1. $16x^2 + 40x + 24 = 0$
 $(8x + 8)(2x + 3) = 0$
 $x = -1, -1\frac{1}{2}$

7. $63x^2 + 86x + 16 = 0$
 $(9x + 2)(7x + 8) = 0$
 $x = -\frac{2}{9}, -1\frac{1}{7}$

2. $10x^2 + 38x + 36 = 0$
 $(2x + 4)(5x + 9) = 0$
 $x = -2, -1\frac{4}{5}$

8. $56x^2 + 29x + 3 = 0$
 $(8x + 3)(7x + 1) = 0$
 $x = -\frac{3}{8}, -\frac{1}{7}$

3. $40x^2 + 36x + 8 = 0$
 $(5x + 2)(8x + 4) = 0$
 $x = -\frac{2}{5}, -\frac{1}{2}$

9. $10x^2 + 39x + 14 = 0$
 $(2x + 7)(5x + 2) = 0$
 $x = -3\frac{1}{2}, -\frac{2}{5}$

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

10. $12x^2 + 38x + 30 = 0$
 $(4x + 6)(3x + 5) = 0$
 $x = -1\frac{1}{2}, -1\frac{2}{3}$

5. $81x^2 + 90x + 16 = 0$
 $(9x + 8)(9x + 2) = 0$
 $x = -\frac{8}{9}, -\frac{2}{9}$

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

6. $36x^2 + 35x + 6 = 0$
 $(4x + 3)(9x + 2) = 0$
 $x = -\frac{3}{4}, -\frac{2}{9}$

12. $6x^2 + 39x + 18 = 0$
 $(6x + 3)(x + 6) = 0$
 $x = -\frac{1}{2}, -6$

Resolver Cuadráticas (H)

Resuelva cada ecuación en función de x.

$$1. \quad 36x^2 + 37x + 7 = 0$$

$$7. \quad 2x^2 + 11x + 5 = 0$$

$$2. \quad 18x^2 + 20x + 2 = 0$$

$$8. \quad 12x^2 + 27x + 15 = 0$$

$$3. \quad 5x^2 + 48x + 64 = 0$$

$$9. \quad 6x^2 + 30x + 36 = 0$$

$$4. \quad 18x^2 + 75x + 42 = 0$$

$$10. \quad 12x^2 + 38x + 20 = 0$$

$$5. \quad 32x^2 + 56x + 20 = 0$$

$$11. \quad 48x^2 + 92x + 42 = 0$$

$$6. \quad 7x^2 + 67x + 36 = 0$$

$$12. \quad 27x^2 + 81x + 42 = 0$$

Resolver Cuadráticas (H) Respuestas

Resuelva cada ecuación en función de x.

1. $36x^2 + 37x + 7 = 0$
 $(4x + 1)(9x + 7) = 0$
 $x = -\frac{1}{4}, -\frac{7}{9}$

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

2. $18x^2 + 20x + 2 = 0$
 $(9x + 1)(2x + 2) = 0$
 $x = -\frac{1}{9}, -1$

8. $12x^2 + 27x + 15 = 0$
 $(4x + 5)(3x + 3) = 0$
 $x = -1\frac{1}{4}, -1$

3. $5x^2 + 48x + 64 = 0$
 $(x + 8)(5x + 8) = 0$
 $x = -8, -1\frac{3}{5}$

9. $6x^2 + 30x + 36 = 0$
 $(3x + 9)(2x + 4) = 0$
 $x = -3, -2$

4. $18x^2 + 75x + 42 = 0$
 $(2x + 7)(9x + 6) = 0$
 $x = -3\frac{1}{2}, -\frac{2}{3}$

10. $12x^2 + 38x + 20 = 0$
 $(6x + 4)(2x + 5) = 0$
 $x = -\frac{2}{3}, -2\frac{1}{2}$

5. $32x^2 + 56x + 20 = 0$
 $(8x + 4)(4x + 5) = 0$
 $x = -\frac{1}{2}, -1\frac{1}{4}$

11. $48x^2 + 92x + 42 = 0$
 $(8x + 6)(6x + 7) = 0$
 $x = -\frac{3}{4}, -1\frac{1}{6}$

6. $7x^2 + 67x + 36 = 0$
 $(x + 9)(7x + 4) = 0$
 $x = -9, -\frac{4}{7}$

12. $27x^2 + 81x + 42 = 0$
 $(9x + 6)(3x + 7) = 0$
 $x = -\frac{2}{3}, -2\frac{1}{3}$

Resolver Cuadráticas (I)

Resuelva cada ecuación en función de x.

$$1. \quad 12x^2 + 40x + 32 = 0$$

$$7. \quad 18x^2 + 21x + 6 = 0$$

$$2. \quad 3x^2 + 19x + 20 = 0$$

$$8. \quad 40x^2 + 82x + 18 = 0$$

$$3. \quad 54x^2 + 117x + 63 = 0$$

$$9. \quad 36x^2 + 87x + 42 = 0$$

$$4. \quad 12x^2 + 36x + 27 = 0$$

$$10. \quad 6x^2 + 60x + 54 = 0$$

$$5. \quad 48x^2 + 114x + 63 = 0$$

$$11. \quad 32x^2 + 88x + 56 = 0$$

$$6. \quad 18x^2 + 18x + 4 = 0$$

$$12. \quad 2x^2 + 16x + 30 = 0$$

Resolver Cuadráticas (I) Respuestas

Resuelva cada ecuación en función de x.

1. $12x^2 + 40x + 32 = 0$
 $(6x + 8)(2x + 4) = 0$
 $x = -1 \frac{1}{3}, -2$

7. $18x^2 + 21x + 6 = 0$
 $(9x + 6)(2x + 1) = 0$
 $x = -\frac{2}{3}, -\frac{1}{2}$

2. $3x^2 + 19x + 20 = 0$
 $(3x + 4)(x + 5) = 0$
 $x = -1 \frac{1}{3}, -5$

8. $40x^2 + 82x + 18 = 0$
 $(8x + 2)(5x + 9) = 0$
 $x = -\frac{1}{4}, -1 \frac{4}{5}$

3. $54x^2 + 117x + 63 = 0$
 $(6x + 7)(9x + 9) = 0$
 $x = -1 \frac{1}{6}, -1$

9. $36x^2 + 87x + 42 = 0$
 $(9x + 6)(4x + 7) = 0$
 $x = -\frac{2}{3}, -1 \frac{3}{4}$

4. $12x^2 + 36x + 27 = 0$
 $(6x + 9)(2x + 3) = 0$
 $x = -1 \frac{1}{2}$

10. $6x^2 + 60x + 54 = 0$
 $(x + 9)(6x + 6) = 0$
 $x = -9, -1$

5. $48x^2 + 114x + 63 = 0$
 $(6x + 9)(8x + 7) = 0$
 $x = -1 \frac{1}{2}, -\frac{7}{8}$

11. $32x^2 + 88x + 56 = 0$
 $(4x + 7)(8x + 8) = 0$
 $x = -1 \frac{3}{4}, -1$

6. $18x^2 + 18x + 4 = 0$
 $(6x + 2)(3x + 2) = 0$
 $x = -\frac{1}{3}, -\frac{2}{3}$

12. $2x^2 + 16x + 30 = 0$
 $(2x + 6)(x + 5) = 0$
 $x = -3, -5$

Resolver Cuadráticas (J)

Resuelva cada ecuación en función de x.

$$1. \quad 20x^2 + 54x + 36 = 0$$

$$7. \quad 15x^2 + 51x + 42 = 0$$

$$2. \quad 21x^2 + 84x + 63 = 0$$

$$8. \quad 24x^2 + 72x + 54 = 0$$

$$3. \quad 12x^2 + 41x + 35 = 0$$

$$9. \quad 14x^2 + 35x + 21 = 0$$

$$4. \quad 27x^2 + 99x + 54 = 0$$

$$10. \quad 6x^2 + 9x + 3 = 0$$

$$5. \quad 63x^2 + 100x + 32 = 0$$

$$11. \quad 8x^2 + 32x + 24 = 0$$

$$6. \quad x^2 + 9x + 20 = 0$$

$$12. \quad 25x^2 + 30x + 5 = 0$$

Resolver Cuadráticas (J) Respuestas

Resuelva cada ecuación en función de x.

1. $20x^2 + 54x + 36 = 0$
 $(4x + 6)(5x + 6) = 0$
 $x = -1\frac{1}{2}, -1\frac{1}{5}$

7. $15x^2 + 51x + 42 = 0$
 $(3x + 6)(5x + 7) = 0$
 $x = -2, -1\frac{2}{5}$

2. $21x^2 + 84x + 63 = 0$
 $(3x + 9)(7x + 7) = 0$
 $x = -3, -1$

8. $24x^2 + 72x + 54 = 0$
 $(6x + 9)(4x + 6) = 0$
 $x = -1\frac{1}{2}$

3. $12x^2 + 41x + 35 = 0$
 $(3x + 5)(4x + 7) = 0$
 $x = -1\frac{2}{3}, -1\frac{3}{4}$

9. $14x^2 + 35x + 21 = 0$
 $(7x + 7)(2x + 3) = 0$
 $x = -1, -1\frac{1}{2}$

4. $27x^2 + 99x + 54 = 0$
 $(9x + 6)(3x + 9) = 0$
 $x = -2/3, -3$

10. $6x^2 + 9x + 3 = 0$
 $(6x + 3)(x + 1) = 0$
 $x = -1/2, -1$

5. $63x^2 + 100x + 32 = 0$
 $(7x + 8)(9x + 4) = 0$
 $x = -1\frac{1}{7}, -4/9$

11. $8x^2 + 32x + 24 = 0$
 $(8x + 8)(x + 3) = 0$
 $x = -1, -3$

6. $x^2 + 9x + 20 = 0$
 $(x + 5)(x + 4) = 0$
 $x = -5, -4$

12. $25x^2 + 30x + 5 = 0$
 $(5x + 5)(5x + 1) = 0$
 $x = -1, -1/5$