

Résolution d'Équations Quadratiques (A)

Calculer les solutions des équations suivantes.

$$1. \quad 8x^2 + 34x + 8 = 0$$

$$7. \quad 20x^2 + 64x + 48 = 0$$

$$2. \quad -40x^2 + 47x + 45 = 0$$

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

$$3. \quad 27x^2 + 57x + 28 = 0$$

$$9. \quad 21x^2 + 22x - 8 = 0$$

$$4. \quad -18x^2 + 21x + 49 = 0$$

$$10. \quad 28x^2 + 59x + 30 = 0$$

$$5. \quad -15x^2 - 21x + 18 = 0$$

$$11. \quad -42x^2 + 31x - 4 = 0$$

$$6. \quad -24x^2 + 62x - 14 = 0$$

$$12. \quad 5x^2 - 14x - 24 = 0$$

Résolution d'Équations Quadratiques (A) Réponses

Calculer les solutions des équations suivantes.

1. $8x^2 + 34x + 8 = 0$
 $(4x + 1)(2x + 8) = 0$
 $x = -1/4, -4$

7. $20x^2 + 64x + 48 = 0$
 $(5x + 6)(4x + 8) = 0$
 $x = -1 1/5, -2$

2. $-40x^2 + 47x + 45 = 0$
 $(5x - 9)(8x + 5) = 0$
 $x = 1 4/5, -5/8$

8. $8x^2 - 71x + 56 = 0$
 $(8x - 7)(x - 8) = 0$
 $x = 7/8, 8$

3. $27x^2 + 57x + 28 = 0$
 $(9x + 7)(3x + 4) = 0$
 $x = -7/9, -1 1/3$

9. $21x^2 + 22x - 8 = 0$
 $(3x + 4)(7x - 2) = 0$
 $x = -1 1/3, 2/7$

4. $-18x^2 + 21x + 49 = 0$
 $-(3x - 7)(6x + 7) = 0$
 $x = 2 1/3, -1 1/6$

10. $28x^2 + 59x + 30 = 0$
 $(7x + 6)(4x + 5) = 0$
 $x = -6/7, -1 1/4$

5. $-15x^2 - 21x + 18 = 0$
 $(5x - 3)(3x + 6) = 0$
 $x = 3/5, -2$

11. $-42x^2 + 31x - 4 = 0$
 $-(6x - 1)(7x - 4) = 0$
 $x = 1/6, 4/7$

6. $-24x^2 + 62x - 14 = 0$
 $(3x - 7)(8x - 2) = 0$
 $x = 2 1/3, 1/4$

12. $5x^2 - 14x - 24 = 0$
 $(x - 4)(5x + 6) = 0$
 $x = 4, -1 1/5$

Résolution d'Équations Quadratiques (B)

Calculer les solutions des équations suivantes.

$$1. \quad 45x^2 - 94x + 48 = 0$$

$$7. \quad -27x^2 - 15x + 8 = 0$$

$$2. \quad -72x^2 + 17x + 72 = 0$$

$$8. \quad 6x^2 + 5x - 21 = 0$$

$$3. \quad 16x^2 - 42x - 49 = 0$$

$$9. \quad x^2 + 2x - 48 = 0$$

$$4. \quad 24x^2 - 42x + 18 = 0$$

$$10. \quad 30x^2 - 29x - 7 = 0$$

$$5. \quad 63x^2 + 37x - 40 = 0$$

$$11. \quad 9x^2 - 34x + 21 = 0$$

$$6. \quad -8x^2 + 70x - 48 = 0$$

$$12. \quad 81x^2 - 99x + 28 = 0$$

Résolution d'Équations Quadratiques (B) Réponses

Calculer les solutions des équations suivantes.

1. $45x^2 - 94x + 48 = 0$
 $(9x - 8)(5x - 6) = 0$
 $x = 8/9, 1\frac{1}{5}$

7. $-27x^2 - 15x + 8 = 0$
 $-(9x + 8)(3x - 1) = 0$
 $x = -8/9, 1/3$

2. $-72x^2 + 17x + 72 = 0$
 $(8x - 9)(9x + 8) = 0$
 $x = 1\frac{1}{8}, -8/9$

8. $6x^2 + 5x - 21 = 0$
 $(3x + 7)(2x - 3) = 0$
 $x = -2\frac{1}{3}, 1\frac{1}{2}$

3. $16x^2 - 42x - 49 = 0$
 $(2x - 7)(8x + 7) = 0$
 $x = 3\frac{1}{2}, -7/8$

9. $x^2 + 2x - 48 = 0$
 $(x - 6)(x + 8) = 0$
 $x = 6, -8$

4. $24x^2 - 42x + 18 = 0$
 $(6x - 6)(4x - 3) = 0$
 $x = 1, 3/4$

10. $30x^2 - 29x - 7 = 0$
 $(5x + 1)(6x - 7) = 0$
 $x = -1/5, 1\frac{1}{6}$

5. $63x^2 + 37x - 40 = 0$
 $(7x + 8)(9x - 5) = 0$
 $x = -1\frac{1}{7}, 5/9$

11. $9x^2 - 34x + 21 = 0$
 $(x - 3)(9x - 7) = 0$
 $x = 3, 7/9$

6. $-8x^2 + 70x - 48 = 0$
 $(8x - 6)(x - 8) = 0$
 $x = 3/4, 8$

12. $81x^2 - 99x + 28 = 0$
 $(9x - 7)(9x - 4) = 0$
 $x = 7/9, 4/9$

Résolution d'Équations Quadratiques (C)

Calculer les solutions des équations suivantes.

$$1. \quad -12x^2 - 3x + 9 = 0$$

$$7. \quad -54x^2 - 84x - 30 = 0$$

$$2. \quad -5x^2 + 49x - 36 = 0$$

$$8. \quad 30x^2 - 94x + 72 = 0$$

$$3. \quad 25x^2 + 30x - 7 = 0$$

$$9. \quad -28x^2 - 19x + 20 = 0$$

$$4. \quad 2x^2 - 6x - 20 = 0$$

$$10. \quad 4x^2 - 40x + 64 = 0$$

$$5. \quad 21x^2 - 15x - 54 = 0$$

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

$$6. \quad 42x^2 + 70x + 28 = 0$$

$$12. \quad -9x^2 - 3x + 20 = 0$$

Résolution d'Équations Quadratiques (C) Réponses

Calculer les solutions des équations suivantes.

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

$$7. \quad -54x^2 - 84x - 30 = 0$$
$$-(6x + 6)(9x + 5) = 0$$
$$x = -1, -5/9$$

$$2. \quad -5x^2 + 49x - 36 = 0$$
$$(x - 9)(5x - 4) = 0$$
$$x = 9, 4/5$$

$$8. \quad 30x^2 - 94x + 72 = 0$$
$$(5x - 9)(6x - 8) = 0$$
$$x = 1\frac{4}{5}, 1\frac{1}{3}$$

$$3. \quad 25x^2 + 30x - 7 = 0$$
$$(5x + 7)(5x - 1) = 0$$
$$x = -1\frac{2}{5}, 1/5$$

$$9. \quad -28x^2 - 19x + 20 = 0$$
$$-(7x - 4)(4x + 5) = 0$$
$$x = 4/7, -1\frac{1}{4}$$

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

$$10. \quad 4x^2 - 40x + 64 = 0$$
$$(4x - 8)(x - 8) = 0$$
$$x = 2, 8$$

$$5. \quad 21x^2 - 15x - 54 = 0$$
$$(7x + 9)(3x - 6) = 0$$
$$x = -1\frac{2}{7}, 2$$

$$11. \quad 40x^2 + 2x - 2 = 0$$
$$(8x + 2)(5x - 1) = 0$$
$$x = -1/4, 1/5$$

$$6. \quad 42x^2 + 70x + 28 = 0$$
$$(7x + 7)(6x + 4) = 0$$
$$x = -1, -2/3$$

$$12. \quad -9x^2 - 3x + 20 = 0$$
$$-(3x + 5)(3x - 4) = 0$$
$$x = -1\frac{2}{3}, 1\frac{1}{3}$$

Résolution d'Équations Quadratiques (D)

Calculer les solutions des équations suivantes.

$$1. \quad 16x^2 - 58x + 7 = 0$$

$$7. \quad -6x^2 + 35x - 25 = 0$$

$$2. \quad -28x^2 + 20x + 8 = 0$$

$$8. \quad 63x^2 - 29x - 4 = 0$$

$$3. \quad -6x^2 - 30x - 36 = 0$$

$$9. \quad -12x^2 - 46x - 42 = 0$$

$$4. \quad -18x^2 + 27x + 81 = 0$$

$$10. \quad -7x^2 - 5x + 2 = 0$$

$$5. \quad 63x^2 + 61x + 6 = 0$$

$$11. \quad 42x^2 + 27x + 3 = 0$$

$$6. \quad -4x^2 - 10x + 36 = 0$$

$$12. \quad 9x^2 + 21x + 6 = 0$$

Résolution d'Équations Quadratiques (D) Réponses

Calculer les solutions des équations suivantes.

1. $16x^2 - 58x + 7 = 0$
 $(2x - 7)(8x - 1) = 0$
 $x = 3 \frac{1}{2}, \quad 1/8$

7. $-6x^2 + 35x - 25 = 0$
 $-(6x - 5)(x - 5) = 0$
 $x = 5/6, \quad 5$

2. $-28x^2 + 20x + 8 = 0$
 $(4x - 4)(7x + 2) = 0$
 $x = 1, \quad -2/7$

8. $63x^2 - 29x - 4 = 0$
 $(9x + 1)(7x - 4) = 0$
 $x = -1/9, \quad 4/7$

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

9. $-12x^2 - 46x - 42 = 0$
 $-(3x + 7)(4x + 6) = 0$
 $x = -2 \frac{1}{3}, \quad -1 \frac{1}{2}$

4. $-18x^2 + 27x + 81 = 0$
 $-(3x - 9)(6x + 9) = 0$
 $x = 3, \quad -1 \frac{1}{2}$

10. $-7x^2 - 5x + 2 = 0$
 $-(x + 1)(7x - 2) = 0$
 $x = -1, \quad 2/7$

5. $63x^2 + 61x + 6 = 0$
 $(9x + 1)(7x + 6) = 0$
 $x = -1/9, \quad -6/7$

11. $42x^2 + 27x + 3 = 0$
 $(6x + 3)(7x + 1) = 0$
 $x = -1/2, \quad -1/7$

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

12. $9x^2 + 21x + 6 = 0$
 $(3x + 6)(3x + 1) = 0$
 $x = -2, \quad -1/3$

Résolution d'Équations Quadratiques (E)

Calculer les solutions des équations suivantes.

$$1. \quad -40x^2 + 62x - 24 = 0$$

$$7. \quad -40x^2 - 72x - 32 = 0$$

$$2. \quad -8x^2 + 57x - 7 = 0$$

$$8. \quad 72x^2 - 29x - 10 = 0$$

$$3. \quad -18x^2 - 15x + 3 = 0$$

$$9. \quad -45x^2 - x + 2 = 0$$

$$4. \quad 2x^2 + 18x + 28 = 0$$

$$10. \quad 42x^2 - 53x + 15 = 0$$

$$5. \quad 20x^2 + 15x - 5 = 0$$

$$11. \quad -6x^2 + 16x - 10 = 0$$

$$6. \quad -20x^2 - 18x - 4 = 0$$

$$12. \quad -21x^2 + 72x - 27 = 0$$

Résolution d'Équations Quadratiques (E) Réponses

Calculer les solutions des équations suivantes.

$$1. \quad -40x^2 + 62x - 24 = 0$$
$$-(5x - 4)(8x - 6) = 0$$
$$x = 4/5, \quad 3/4$$

$$7. \quad -40x^2 - 72x - 32 = 0$$
$$-(5x + 4)(8x + 8) = 0$$
$$x = -4/5, \quad -1$$

$$2. \quad -8x^2 + 57x - 7 = 0$$
$$(x - 7)(8x - 1) = 0$$
$$x = 7, \quad 1/8$$

$$8. \quad 72x^2 - 29x - 10 = 0$$
$$(9x + 2)(8x - 5) = 0$$
$$x = -2/9, \quad 5/8$$

$$3. \quad -18x^2 - 15x + 3 = 0$$
$$(6x - 1)(3x + 3) = 0$$
$$x = 1/6, \quad -1$$

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

$$4. \quad 2x^2 + 18x + 28 = 0$$
$$(2x + 4)(x + 7) = 0$$
$$x = -2, \quad -7$$

$$10. \quad 42x^2 - 53x + 15 = 0$$
$$(6x - 5)(7x - 3) = 0$$
$$x = 5/6, \quad 3/7$$

$$5. \quad 20x^2 + 15x - 5 = 0$$
$$(4x - 1)(5x + 5) = 0$$
$$x = 1/4, \quad -1$$

$$11. \quad -6x^2 + 16x - 10 = 0$$
$$-(3x - 5)(2x - 2) = 0$$
$$x = 1, 2/3, \quad 1$$

$$6. \quad -20x^2 - 18x - 4 = 0$$
$$(5x + 2)(4x + 2) = 0$$
$$x = -2/5, \quad -1/2$$

$$12. \quad -21x^2 + 72x - 27 = 0$$
$$-(3x - 9)(7x - 3) = 0$$
$$x = 3, \quad 3/7$$

Résolution d'Équations Quadratiques (F)

Calculer les solutions des équations suivantes.

$$1. \quad 40x^2 - 25x - 15 = 0$$

$$7. \quad 8x^2 + 30x + 18 = 0$$

$$2. \quad 10x^2 - 24x + 14 = 0$$

$$8. \quad 30x^2 - 19x - 4 = 0$$

$$3. \quad 54x^2 + 96x + 42 = 0$$

$$9. \quad 63x^2 - 23x + 2 = 0$$

$$4. \quad 48x^2 + 20x - 8 = 0$$

$$10. \quad 6x^2 - 13x - 8 = 0$$

$$5. \quad 15x^2 + 11x + 2 = 0$$

$$11. \quad 20x^2 + 11x - 3 = 0$$

$$6. \quad 15x^2 + 26x - 21 = 0$$

$$12. \quad -35x^2 + 26x + 16 = 0$$

Résolution d'Équations Quadratiques (F) Réponses

Calculer les solutions des équations suivantes.

1. $40x^2 - 25x - 15 = 0$
 $(5x - 5)(8x + 3) = 0$
 $x = 1, -3/8$

7. $8x^2 + 30x + 18 = 0$
 $(2x + 6)(4x + 3) = 0$
 $x = -3, -3/4$

2. $10x^2 - 24x + 14 = 0$
 $(2x - 2)(5x - 7) = 0$
 $x = 1, 1 2/5$

8. $30x^2 - 19x - 4 = 0$
 $(6x + 1)(5x - 4) = 0$
 $x = -1/6, 4/5$

3. $54x^2 + 96x + 42 = 0$
 $(6x + 6)(9x + 7) = 0$
 $x = -1, -7/9$

9. $63x^2 - 23x + 2 = 0$
 $(9x - 2)(7x - 1) = 0$
 $x = 2/9, 1/7$

4. $48x^2 + 20x - 8 = 0$
 $(8x - 2)(6x + 4) = 0$
 $x = 1/4, -2/3$

10. $6x^2 - 13x - 8 = 0$
 $(2x + 1)(3x - 8) = 0$
 $x = -1/2, 2 2/3$

5. $15x^2 + 11x + 2 = 0$
 $(3x + 1)(5x + 2) = 0$
 $x = -1/3, -2/5$

11. $20x^2 + 11x - 3 = 0$
 $(5x - 1)(4x + 3) = 0$
 $x = 1/5, -3/4$

6. $15x^2 + 26x - 21 = 0$
 $(5x - 3)(3x + 7) = 0$
 $x = 3/5, -2 1/3$

12. $-35x^2 + 26x + 16 = 0$
 $-(5x + 2)(7x - 8) = 0$
 $x = -2/5, 1 1/7$

Résolution d'Équations Quadratiques (G)

Calculer les solutions des équations suivantes.

$$1. \quad 6x^2 + 46x - 16 = 0$$

$$7. \quad -4x^2 + 40x - 64 = 0$$

$$2. \quad -21x^2 + 11x + 2 = 0$$

$$8. \quad -6x^2 + 38x - 40 = 0$$

$$3. \quad -27x^2 + 60x - 12 = 0$$

$$9. \quad 4x^2 + 30x - 16 = 0$$

$$4. \quad -18x^2 - 9x + 20 = 0$$

$$10. \quad 8x^2 - 10x - 12 = 0$$

$$5. \quad 4x^2 + x - 18 = 0$$

$$11. \quad 24x^2 - 42x + 18 = 0$$

$$6. \quad -4x^2 - 26x - 30 = 0$$

$$12. \quad 36x^2 - 76x + 8 = 0$$

Résolution d'Équations Quadratiques (G) Réponses

Calculer les solutions des équations suivantes.

1. $6x^2 + 46x - 16 = 0$
 $(x + 8)(6x - 2) = 0$
 $x = -8, \quad 1/3$

7. $-4x^2 + 40x - 64 = 0$
 $-(4x - 8)(x - 8) = 0$
 $x = 2, \quad 8$

2. $-21x^2 + 11x + 2 = 0$
 $(7x + 1)(3x - 2) = 0$
 $x = -1/7, \quad 2/3$

8. $-6x^2 + 38x - 40 = 0$
 $-(x - 5)(6x - 8) = 0$
 $x = 5, \quad 1 1/3$

3. $-27x^2 + 60x - 12 = 0$
 $(3x - 6)(9x - 2) = 0$
 $x = 2, \quad 2/9$

9. $4x^2 + 30x - 16 = 0$
 $(4x - 2)(x + 8) = 0$
 $x = 1/2, \quad -8$

4. $-18x^2 - 9x + 20 = 0$
 $-(3x + 4)(6x - 5) = 0$
 $x = -1 1/3, \quad 5/6$

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

5. $4x^2 + x - 18 = 0$
 $(4x + 9)(x - 2) = 0$
 $x = -2 1/4, \quad 2$

11. $24x^2 - 42x + 18 = 0$
 $(8x - 6)(3x - 3) = 0$
 $x = 3/4, \quad 1$

6. $-4x^2 - 26x - 30 = 0$
 $(4x + 6)(x + 5) = 0$
 $x = -1 1/2, \quad -5$

12. $36x^2 - 76x + 8 = 0$
 $(9x - 1)(4x - 8) = 0$
 $x = 1/9, \quad 2$

Résolution d'Équations Quadratiques (H)

Calculer les solutions des équations suivantes.

$$1. \quad -8x^2 + 26x + 45 = 0$$

$$7. \quad -25x^2 - 10x + 24 = 0$$

$$2. \quad 7x^2 + 26x + 15 = 0$$

$$8. \quad -35x^2 - 83x - 36 = 0$$

$$3. \quad 48x^2 + 90x + 42 = 0$$

$$9. \quad -36x^2 - 88x - 32 = 0$$

$$4. \quad 28x^2 + 22x - 18 = 0$$

$$10. \quad 2x^2 - 17x + 35 = 0$$

$$5. \quad -42x^2 + 84x - 42 = 0$$

$$11. \quad -54x^2 - 9x + 9 = 0$$

$$6. \quad 64x^2 + 88x + 18 = 0$$

$$12. \quad 5x^2 - 16x + 3 = 0$$

Résolution d'Équations Quadratiques (H) Réponses

Calculer les solutions des équations suivantes.

1. $-8x^2 + 26x + 45 = 0$
 $-(4x + 5)(2x - 9) = 0$
 $x = -1 \frac{1}{4}, \quad 4 \frac{1}{2}$

7. $-25x^2 - 10x + 24 = 0$
 $-(5x - 4)(5x + 6) = 0$
 $x = \frac{4}{5}, \quad -1 \frac{1}{5}$

2. $7x^2 + 26x + 15 = 0$
 $(7x + 5)(x + 3) = 0$
 $x = -\frac{5}{7}, \quad -3$

8. $-35x^2 - 83x - 36 = 0$
 $-(5x + 9)(7x + 4) = 0$
 $x = -1 \frac{4}{5}, \quad -\frac{4}{7}$

3. $48x^2 + 90x + 42 = 0$
 $(6x + 6)(8x + 7) = 0$
 $x = -1, \quad -\frac{7}{8}$

9. $-36x^2 - 88x - 32 = 0$
 $-(4x + 8)(9x + 4) = 0$
 $x = -2, \quad -\frac{4}{9}$

4. $28x^2 + 22x - 18 = 0$
 $(4x - 2)(7x + 9) = 0$
 $x = \frac{1}{2}, \quad -1 \frac{2}{7}$

10. $2x^2 - 17x + 35 = 0$
 $(2x - 7)(x - 5) = 0$
 $x = 3 \frac{1}{2}, \quad 5$

5. $-42x^2 + 84x - 42 = 0$
 $(7x - 7)(6x - 6) = 0$
 $x = 1$

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

6. $64x^2 + 88x + 18 = 0$
 $(8x + 2)(8x + 9) = 0$
 $x = -\frac{1}{4}, \quad -1 \frac{1}{8}$

12. $5x^2 - 16x + 3 = 0$
 $(5x - 1)(x - 3) = 0$
 $x = \frac{1}{5}, \quad 3$

Résolution d'Équations Quadratiques (I)

Calculer les solutions des équations suivantes.

$$1. \quad 6x^2 + 4x - 2 = 0$$

$$7. \quad 3x^2 + 20x - 7 = 0$$

$$2. \quad 72x^2 + 102x + 36 = 0$$

$$8. \quad 16x^2 + 18x - 9 = 0$$

$$3. \quad -10x^2 + 21x + 49 = 0$$

$$9. \quad -18x^2 + 4x + 14 = 0$$

$$4. \quad -54x^2 + 24x + 30 = 0$$

$$10. \quad -24x^2 + 26x + 8 = 0$$

$$5. \quad -6x^2 + 57x - 27 = 0$$

$$11. \quad -63x^2 + 71x - 20 = 0$$

$$6. \quad -6x^2 + 47x + 8 = 0$$

$$12. \quad -6x^2 - 13x + 63 = 0$$

Résolution d'Équations Quadratiques (I) Réponses

Calculer les solutions des équations suivantes.

1. $6x^2 + 4x - 2 = 0$
 $(x + 1)(6x - 2) = 0$
 $x = -1, \quad 1/3$

7. $3x^2 + 20x - 7 = 0$
 $(x + 7)(3x - 1) = 0$
 $x = -7, \quad 1/3$

2. $72x^2 + 102x + 36 = 0$
 $(9x + 6)(8x + 6) = 0$
 $x = -2/3, \quad -3/4$

8. $16x^2 + 18x - 9 = 0$
 $(8x - 3)(2x + 3) = 0$
 $x = 3/8, \quad -1 1/2$

3. $-10x^2 + 21x + 49 = 0$
 $(2x - 7)(5x + 7) = 0$
 $x = 3 1/2, \quad -1 2/5$

9. $-18x^2 + 4x + 14 = 0$
 $-(2x - 2)(9x + 7) = 0$
 $x = 1, \quad -7/9$

4. $-54x^2 + 24x + 30 = 0$
 $-(9x + 5)(6x - 6) = 0$
 $x = -5/9, \quad 1$

10. $-24x^2 + 26x + 8 = 0$
 $-(4x + 1)(6x - 8) = 0$
 $x = -1/4, \quad 1 1/3$

5. $-6x^2 + 57x - 27 = 0$
 $(x - 9)(6x - 3) = 0$
 $x = 9, \quad 1/2$

11. $-63x^2 + 71x - 20 = 0$
 $-(9x - 5)(7x - 4) = 0$
 $x = 5/9, \quad 4/7$

6. $-6x^2 + 47x + 8 = 0$
 $(6x + 1)(x - 8) = 0$
 $x = -1/6, \quad 8$

12. $-6x^2 - 13x + 63 = 0$
 $-(3x - 7)(2x + 9) = 0$
 $x = 2 1/3, \quad -4 1/2$

Résolution d'Équations Quadratiques (J)

Calculer les solutions des équations suivantes.

$$1. \quad 2x^2 + 16x + 30 = 0$$

$$7. \quad -10x^2 - 6x + 28 = 0$$

$$2. \quad 6x^2 + 10x - 4 = 0$$

$$8. \quad -7x^2 - 8x + 12 = 0$$

$$3. \quad -72x^2 - 31x + 28 = 0$$

$$9. \quad 15x^2 + 19x - 10 = 0$$

$$4. \quad 14x^2 + 59x + 35 = 0$$

$$10. \quad -30x^2 - 77x - 49 = 0$$

$$5. \quad -8x^2 - 39x - 28 = 0$$

$$11. \quad -28x^2 + 33x - 9 = 0$$

$$6. \quad 24x^2 - 6x - 63 = 0$$

$$12. \quad 27x^2 - 51x - 28 = 0$$

Résolution d'Équations Quadratiques (J) Réponses

Calculer les solutions des équations suivantes.

1. $2x^2 + 16x + 30 = 0$
 $(x + 5)(2x + 6) = 0$
 $x = -5, -3$

7. $-10x^2 - 6x + 28 = 0$
 $-(5x - 7)(2x + 4) = 0$
 $x = 1 \frac{2}{5}, -2$

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

8. $-7x^2 - 8x + 12 = 0$
 $-(7x - 6)(x + 2) = 0$
 $x = 6/7, -2$

3. $-72x^2 - 31x + 28 = 0$
 $(9x - 4)(8x + 7) = 0$
 $x = 4/9, -7/8$

9. $15x^2 + 19x - 10 = 0$
 $(3x + 5)(5x - 2) = 0$
 $x = -1 \frac{2}{3}, 2/5$

4. $14x^2 + 59x + 35 = 0$
 $(7x + 5)(2x + 7) = 0$
 $x = -5/7, -3 \frac{1}{2}$

10. $-30x^2 - 77x - 49 = 0$
 $-(6x + 7)(5x + 7) = 0$
 $x = -1 \frac{1}{6}, -1 \frac{2}{5}$

5. $-8x^2 - 39x - 28 = 0$
 $(x + 4)(8x + 7) = 0$
 $x = -4, -7/8$

11. $-28x^2 + 33x - 9 = 0$
 $-(4x - 3)(7x - 3) = 0$
 $x = 3/4, 3/7$

6. $24x^2 - 6x - 63 = 0$
 $(6x + 9)(4x - 7) = 0$
 $x = -1 \frac{1}{2}, 1 \frac{3}{4}$

12. $27x^2 - 51x - 28 = 0$
 $(9x + 4)(3x - 7) = 0$
 $x = -4/9, 2 \frac{1}{3}$