Résolution d'Équations Quadratiques (B)

Calculer les solutions des équations suivantes.

1. $2x^2 + 24x + 28 = -26$

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

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

8. $2x^2 + 23x + 17 = -39$

3. $x^2 + 13x + 8 = -32$

9. $4x^2 - 2x - 54 = 2$

4. $x^2 + 12x + 10 = -17$

10. $4x^2 + 14x - 4 = 4$

5. $2x^2 + 23x + 21 = -42$

11. $x^2 + 7x + 11 = -1$

6. $2x^2 - 15x + 20 = -8$

12. $x^2 + 6x - 4 = 3$

Mathslibres.com

Résolution d'Équations Quadratiques (B) Réponses

Calculer les solutions des équations suivantes.

1. $2x^2 + 24x + 28 = -26$
    $2x^2 + 24x + 54 = 0$
    $(x + 9)(2x + 6) = 0$
    $x = -9, \ -3$

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

3. $x^2 + 13x + 8 = -32$
    $x^2 + 13x + 40 = 0$
    $(x + 8)(x + 5) = 0$
    $x = -8, \ -5$

4. $x^2 + 12x + 10 = -17$
    $x^2 + 12x + 27 = 0$
    $(x + 3)(x + 9) = 0$
    $x = -3, \ -9$

5. $2x^2 + 23x + 21 = -42$
    $2x^2 + 23x + 63 = 0$
    $(x + 7)(2x + 9) = 0$
    $x = -7, \ -4 \ 1/2$

6. $2x^2 - 15x + 20 = -8$
    $2x^2 - 15x + 28 = 0$
    $(x - 4)(2x - 7) = 0$
    $x = 4, \ 3 \ 1/2$

7. $x^2 - 12x + 7 = -20$
    $x^2 - 12x + 27 = 0$
    $(x - 9)(x - 3) = 0$
    $x = 9, \ 3$

8. $2x^2 + 23x + 17 = -39$
    $2x^2 + 23x + 56 = 0$
    $(2x + 7)(x + 8) = 0$
    $x = -3 \ 1/2, \ -8$

9. $4x^2 - 2x - 54 = 2$
    $4x^2 - 2x - 56 = 0$
    $(2x + 7)(2x - 8) = 0$
    $x = -3 \ 1/2, \ 4$

10. $4x^2 + 14x - 4 = 4$
    $4x^2 + 14x - 8 = 0$
    $(2x - 1)(2x + 8) = 0$
    $x = 1/2, \ -4$

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

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

Mathslibres.com