Résolution d'Équations Quadratiques (C)

Calculer les solutions des équations suivantes.

1. $x^2 - x - 23 = 19$

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

3. $x^2 - 53 = 11$

4. $4x^2 - 4x - 5 = 10$

5. $4x^2 - 10x + 1 = -5$

6. $x^2 + 10x + 13 = -3$

7. $2x^2 + 6x - 29 = 7$

8. $2x^2 + 4x - 43 = 5$

9. $2x^2 - 14x - 14 = 22$

10. $x^2 - 12x + 22 = -13$

11. $2x^2 - 6x - 17 = 3$

12. $4x^2 - 24x + 7 = -20$

Résolution d'Équations Quadratiques (C) Réponses

Calculer les solutions des équations suivantes.

1. $x^2 - x - 23 = 19$
   $x^2 - x - 42 = 0$
   $(x + 6)(x - 7) = 0$
   $x = -6 \ , \ 7$

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

3. $x^2 - 53 = 11$
   $x^2 - 64 = 0$
   $(x + 8)(x - 8) = 0$
   $x = -8 \ , \ 8$

4. $4x^2 - 4x - 5 = 10$
   $4x^2 - 4x - 15 = 0$
   $(2x - 5)(2x + 3) = 0$
   $x = 2\ 1/2, \ -1\ 1/2$

5. $4x^2 - 10x + 1 = -5$
   $4x^2 - 10x + 6 = 0$
   $(2x - 3)(2x - 2) = 0$
   $x = 1\ 1/2, \ 1$

6. $x^2 + 10x + 13 = -3$
   $x^2 + 10x + 16 = 0$
   $(x + 2)(x + 8) = 0$
   $x = -2 \ , \ -8$

7. $2x^2 + 6x - 29 = 7$
   $2x^2 + 6x - 36 = 0$
   $(2x - 6)(x + 6) = 0$
   $x = 3 \ , \ -6$

8. $2x^2 + 4x - 43 = 5$
   $2x^2 + 4x - 48 = 0$
   $(x + 6)(2x - 8) = 0$
   $x = -6 \ , \ 4$

9. $2x^2 - 14x - 14 = 22$
   $2x^2 - 14x - 36 = 0$
   $(2x + 4)(x - 9) = 0$
   $x = -2 \ , \ 9$

10. $x^2 - 12x + 22 = -13$
    $x^2 - 12x + 35 = 0$
    $(x - 7)(x - 5) = 0$
    $x = 7 \ , \ 5$

11. $2x^2 - 6x - 17 = 3$
    $2x^2 - 6x - 20 = 0$
    $(x - 5)(2x + 4) = 0$
    $x = 5 \ , \ -2$

12. $4x^2 - 24x + 7 = -20$
    $4x^2 - 24x + 27 = 0$
    $(2x - 9)(2x - 3) = 0$
    $x = 4\ 1/2, \ 1\ 1/2$