Résolution d'Équations Quadratiques (F)

Calculer les solutions des équations suivantes.

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

2. $2x^2 - 13x + 3 = -15$

3. $2x^2 + 14x + 24 = 0$

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

5. $2x^2 - 8x + 3 = -3$

6. $x^2 - 2x - 1 = 62$

7. $4x^2 + 6x - 30 = 10$

8. $2x^2 - 8x + 5 = -1$

9. $x^2 - 7x + 10 = -2$

10. $x^2 + 5x - 13 = 23$

11. $2x^2 - 14x + 1 = -23$

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

Résolution d'Équations Quadratiques (F) Réponses

Calculer les solutions des équations suivantes.

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

2. $2x^2 - 13x + 3 = -15$
   $2x^2 - 13x + 18 = 0$
   $(2x - 9)(x - 2) = 0$
   $x = 4\ 1/2, \ 2$

3. $2x^2 + 14x + 24 = 0$
   $2x^2 + 14x + 24 = 0$
   $(2x + 8)(x + 3) = 0$
   $x = -4 \ , \ -3$

4. $4x^2 + 4x - 2 = 33$
   $4x^2 + 4x - 35 = 0$
   $(2x + 7)(2x - 5) = 0$
   $x = -3\ 1/2, \ 2\ 1/2$

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

6. $x^2 - 2x - 1 = 62$
   $x^2 - 2x - 63 = 0$
   $(x + 7)(x - 9) = 0$
   $x = -7 \ , \ 9$

7. $4x^2 + 6x - 30 = 10$
   $4x^2 + 6x - 40 = 0$
   $(2x + 8)(2x - 5) = 0$
   $x = -4 \ , \ 2\ 1/2$

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

9. $x^2 - 7x + 10 = -2$
   $x^2 - 7x + 12 = 0$
   $(x - 4)(x - 3) = 0$
   $x = 4 \ , \ 3$

10. $x^2 + 5x - 13 = 23$
    $x^2 + 5x - 36 = 0$
    $(x - 4)(x + 9) = 0$
    $x = 4 \ , \ -9$

11. $2x^2 - 14x + 1 = -23$
    $2x^2 - 14x + 24 = 0$
    $(x - 4)(2x - 6) = 0$
    $x = 4 \ , \ 3$

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