Résolution d'Équations Quadratiques (B)

Calculer les solutions des équations suivantes.

1. $-x^2 - 6x - 1 = 7$

2. $2x^2 + 5x - 1 = 6$

3. $-x^2 - 13x - 1 = 35$

4. $4x^2 - 28x + 22 = -26$

5. $2x^2 + 5x - 5 = 7$

6. $2x^2 + 7x + 1 = -2$

7. $2x^2 - 7x + 3 = -3$

8. $-4x^2 - 26x - 16 = 20$

9. $-2x^2 - 17x - 11 = 10$

10. $x^2 - 6x = -8$

11. $x^2 - 15x + 8 = -46$

12. $x^2 - x - 27 = 3$

Résolution d'Équations Quadratiques (B) Réponses

Calculer les solutions des équations suivantes.

1. $-x^2 - 6x - 1 = 7$
   $-x^2 - 6x - 8 = 0$
   $-(x + 4)(x + 2) = 0$
   $x = -4\ ,\ -2$

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

3. $-x^2 - 13x - 1 = 35$
   $-x^2 - 13x - 36 = 0$
   $(x + 9)(x + 4) = 0$
   $x = -9\ ,\ -4$

4. $4x^2 - 28x + 22 = -26$
   $4x^2 - 28x + 48 = 0$
   $(2x - 6)(2x - 8) = 0$
   $x = 3\ ,\ 4$

5. $2x^2 + 5x - 5 = 7$
   $2x^2 + 5x - 12 = 0$
   $(2x - 3)(x + 4) = 0$
   $x = 1\ 1/2,\ -4$

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

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

8. $-4x^2 - 26x - 16 = 20$
   $-4x^2 - 26x - 36 = 0$
   $-(2x + 4)(2x + 9) = 0$
   $x = -2\ ,\ -4\ 1/2$

9. $-2x^2 - 17x - 11 = 10$
   $-2x^2 - 17x - 21 = 0$
   $-(x + 7)(2x + 3) = 0$
   $x = -7\ ,\ -1\ 1/2$

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

11. $x^2 - 15x + 8 = -46$
    $x^2 - 15x + 54 = 0$
    $(x - 9)(x - 6) = 0$
    $x = 9\ ,\ 6$

12. $x^2 - x - 27 = 3$
    $x^2 - x - 30 = 0$
    $(x + 5)(x - 6) = 0$
    $x = -5\ ,\ 6$