

Dans chacun des exercices proposés ci-dessous, factoriser au maximum $f(x)$.

Exercice 1. $f(x) = (5 - 4x)(-x - 1) + (9x - 6)(-x - 1)$.

Exercice 2. $f(x) = (x - 8)(2x + 10) + (2x + 6)(2x + 10)$.

Exercice 3. $f(x) = (-7x - 4)(6x - 10) + (-x - 8)(6x - 10)$.

Exercice 4. $f(x) = (-5x - 5)(10x + 10) + (9x - 1)(10x + 10)$.

Exercice 5. $f(x) = 9(-x - 4) + 9(9x + 6)$.

Exercice 6. $f(x) = (1 - 4x)(9x + 4) - (1 - 4x)(5x + 7)$.

Exercice 7. $f(x) = (-10x - 7)(-5x - 10) - (-10x - 7)(5 - 2x)$.

Exercice 8. $f(x) = (2 - 6x)(3x - 2) - (-8x - 4)(2 - 6x)$.

Exercice 9. $f(x) = 2(-x - 7)x - 2x(3x - 3)$.

Exercice 10. $f(x) = (6 - 8x)(-3x - 6) - (3 - 6x)(-3x - 6)$.

Exercice 11. $f(x) = (2 - x)^2 - (10 - x)^2$.

Exercice 12. $f(x) = (3x + 8)^2 - (4x + 3)^2$.

Exercice 13. $f(x) = (-6x - 9)^2 - (-3x - 8)^2$.

Exercice 14. $f(x) = (10x + 1)^2 - (-3x - 1)^2$.

Exercice 15. $f(x) = (2 - 3x)^2 - (6 - 3x)^2$.

Exercice 16. $f(x) = (5x + 5)^2 + (4x + 4)(5x + 5)$.

Exercice 17. $f(x) = (7x - 3)^2 + (-4x - 10)(7x - 3)$.

Exercice 18. $f(x) = (-4x - 2)^2 + (-2x - 2)(-4x - 2)$.

Exercice 19. $f(x) = (-8x - 1)^2 + (-4x - 10)(-8x - 1)$.

Exercice 20. $f(x) = (-9x - 2)^2 + (x - 10)(-9x - 2)$.

Exercice 21. $f(x) = (4 - 6x)^2 - (4 - 6x)(-2x - 9)$.

Exercice 22. $f(x) = (-6x - 7)^2 - (-6x - 7)(6 - 2x)$.

Exercice 23. $f(x) = (9x - 1)^2 - (3x + 6)(9x - 1)$.

Exercice 24. $f(x) = (5x - 7)^2 - (5x - 7)(9x - 7)$.

Exercice 25. $f(x) = (1 - 3x)^2 - (1 - 3x)(7x + 8)$.