



Factoriser à l'aide de l'identité remarquable

$$a^2 - b^2 = (a - b)(a + b)$$

Exercice : Factoriser les expressions suivantes.

$$25x^2 - 100 =$$

$$4x^2 - 4 =$$

$$9x^2 - 49 =$$

$$81t^2 - 16 =$$

$$36y^2 - 25 =$$

$$4 - t^2 =$$

$$16 - 4u^2 =$$

$$25 - 25y^2 =$$

$$u^2 - 9 =$$

$$x^2 - 1 =$$

$$100u^2 - 36 =$$

$$49t^2 - 16 =$$

$$x^2 - 16 =$$

$$64 - 25x^2 =$$

$$4 - 9y^2 =$$

$$81 - x^2 =$$

$$9x^2 - 49 =$$

$$1 - y^2 =$$

$$y^2 - 100 =$$

$$100x^2 - 100 =$$



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$$a^2 - b^2 = (a - b)(a + b)$$

Correction

Exercice : Factoriser les expressions suivantes.

$$25x^2 - 100 = (5x + 10)(5x - 10)$$

$$4x^2 - 4 = (2x + 2)(2x - 2)$$

$$9x^2 - 49 = (3x + 7)(3x - 7)$$

$$81t^2 - 16 = (9t + 4)(9t - 4)$$

$$36y^2 - 25 = (6y + 5)(6y - 5)$$

$$4 - t^2 = (2 + t)(2 - t)$$

$$16 - 4u^2 = (4 + 2u)(4 - 2u)$$

$$25 - 25y^2 = (5 + 5y)(5 - 5y)$$

$$u^2 - 9 = (u + 3)(u - 3)$$

$$x^2 - 1 = (x + 1)(x - 1)$$

$$100u^2 - 36 = (10u + 6)(10u - 6)$$

$$49t^2 - 16 = (7t + 4)(7t - 4)$$

$$x^2 - 16 = (x + 4)(x - 4)$$

$$64 - 25x^2 = (8 + 5x)(8 - 5x)$$

$$4 - 9y^2 = (2 + 3y)(2 - 3y)$$

$$81 - x^2 = (9 + x)(9 - x)$$

$$9x^2 - 49 = (7x + 7)(7x - 7)$$

$$1 - y^2 = (1 + y)(1 - y)$$

$$y^2 - 100 = (y + 10)(y - 10)$$

$$100x^2 - 100 = (10x + 10)(10x - 10)$$