



Factorisations ★★

Factoriser

$$4x^2 - 12x + 9$$



Factorisations ★

Factoriser

$$x^2 - 6x + 9$$



Factorisations ★

Factoriser

$$x^2 + 10x + 25$$



Factorisations ★

Factoriser

$$x^2 + 2x + 1$$



Factorisations ★

Compléter la factorisation :

$$4x^2 + 20x + 25 \\ = (\dots + \dots)^2$$



Factorisations ★

Compléter la factorisation :

$$9x^2 - 6x + 1 \\ = (\dots - \dots)^2$$



Factorisations

Compléter la factorisation :

$$16x^2 + 8x + 1 \\ = (\dots + 1)^2$$



Factorisations

Compléter la factorisation :

$$9x^2 - 30x + 25 \\ = (\dots - 5)^2$$

$$\begin{aligned}
 & x^2 - 6x + 9 \\
 = & x^2 - 2 \times x \times 3 + 3^2 \\
 = & (x - 3)^2
 \end{aligned}$$

$$\begin{aligned}
 & 4x^2 - 12x + 9 \\
 = & (2x)^2 - 2 \times 2x \times 3 + 3^2 \\
 = & (2x - 3)^2
 \end{aligned}$$

$$\begin{aligned}
 & x^2 + 2x + 1 \\
 = & x^2 + 2 \times x \times 1 + 1^2 \\
 = & (x + 1)^2
 \end{aligned}$$

$$\begin{aligned}
 & x^2 + 10x + 25 \\
 = & x^2 + 2 \times x \times 5 + 5^2 \\
 = & (x + 5)^2
 \end{aligned}$$

$$\begin{aligned}
 & 9x^2 - 6x + 1 \\
 = & (3x)^2 - 2 \times 3x \times 1 + 1^2 \\
 = & (3x - 1)^2
 \end{aligned}$$

$$\begin{aligned}
 & 4x^2 + 20x + 25 \\
 = & (2x)^2 + 2 \times 2x \times 5 + 5^2 \\
 = & (2x + 5)^2
 \end{aligned}$$

$$\begin{aligned}
 & 9x^2 - 30x + 25 \\
 = & (3x)^2 - 2 \times 3x \times 5 + 5^2 \\
 = & (3x - 5)^2
 \end{aligned}$$

Réponse : $3x$

$$\begin{aligned}
 & 16x^2 + 8x + 1 \\
 = & (4x)^2 + 2 \times 4x \times 1 + 1^2 \\
 = & (4x + 1)^2
 \end{aligned}$$

Réponse : $4x$



Factorisations ★★

Factoriser

$$x^2 - 1$$



Factorisations ★★

Factoriser

$$x^2 - 4$$



Factorisations ★★

Factoriser

$$x^2 - 9$$



Factorisations ★★

Factoriser

$$x^2 - 49$$



Factorisations ★★

Factoriser

$$4x^2 - 9$$



Factorisations ★★

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$$9x^2 - 25$$



Factorisations ★★

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$$100 - x^2$$



Factorisations ★★

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$$25 - 4x^2$$

$$\begin{aligned}
 & x^2 - 4 \\
 &= x^2 - 2^2 \\
 &= (x - 2)(x + 2)
 \end{aligned}$$

$$\begin{aligned}
 & x^2 - 1 \\
 &= x^2 - 1^2 \\
 &= (x - 1)(x + 1)
 \end{aligned}$$

$$\begin{aligned}
 & x^2 - 49 \\
 &= x^2 - 7^2 \\
 &= (x - 7)(x + 7)
 \end{aligned}$$

$$\begin{aligned}
 & x^2 - 9 \\
 &= x^2 - 3^2 \\
 &= (x - 3)(x + 3)
 \end{aligned}$$

$$\begin{aligned}
 & 9x^2 - 25 \\
 &= (3x)^2 - 5^2 \\
 &= (3x - 5)(3x + 5)
 \end{aligned}$$

$$\begin{aligned}
 & 4x^2 - 9 \\
 &= (2x)^2 - 3^2 \\
 &= (2x - 3)(2x + 3)
 \end{aligned}$$

$$\begin{aligned}
 & 25 - 4x^2 \\
 &= 5^2 - (2x)^2 \\
 &= (5 - 2x)(5 + 2x)
 \end{aligned}$$

$$\begin{aligned}
 & 100 - x^2 \\
 &= 10^2 - x^2 \\
 &= (10 - x)(10 + x)
 \end{aligned}$$



Factorisations

Factoriser

$$x^2 + 4x$$



Factorisations

Factoriser

$$x^2 - 5x$$



Factorisations

Factoriser

$$10x - 5$$



Factorisations

Factoriser

$$3x + 12$$



Factorisations

Factoriser

$$7x - 42$$



Factorisations

Factoriser

$$6x - 15$$



Factorisations

Factoriser en mettant 5 en facteur

$$10x + 25$$



Factorisations

Factoriser en mettant 3 en facteur

$$12 - 15x$$

$$x^2 - 5x = x(x - 5)$$

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

$$3x + 12 = 3(x + 4)$$

$$10x - 5 = 5(2x - 1)$$

$$6x - 15 = 3(2x - 5)$$

$$7x - 42 = 7(x - 6)$$

$$12 - 15x = 3(4 - 5x)$$

$$10x + 25 = 5(2x + 5)$$



Factorisations ★★

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$$(x + 3)(2x - 5) + (x + 7)(x + 3)$$



Factorisations ★★

Factoriser

$$7(x - 3) + x(x - 3)$$



Factorisations ★★

Factoriser

$$2x(x - 1) - 3(x - 1)$$



Factorisations ★★

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$$3x(x + 1) + 3x(x + 2)$$



Factorisations ★

Compléter la factorisation :

$$\begin{aligned} 3x(x - 5) - 7(x - 5) \\ = (x - 5)(\dots\dots\dots) \end{aligned}$$



Factorisations ★

Compléter la factorisation :

$$\begin{aligned} 7(x - 1) + x(x - 1) \\ = (x - 1)(\dots\dots\dots) \end{aligned}$$



Factorisations ★

Compléter la factorisation :

$$\begin{aligned} 2x(x + 1) - (x + 1) \\ = (x + 1)(\dots\dots\dots) \end{aligned}$$



Factorisations ★

Compléter la factorisation :

$$\begin{aligned} (x + 1)(x - 3) - 2(x - 3) \\ = (x - 3)(\dots\dots\dots) \end{aligned}$$

$$\begin{aligned} & \underline{7(x-3)} + \underline{x(x-3)} \\ &= (x-3)(7+x) \end{aligned}$$

$$\begin{aligned} & \underline{(x+3)(2x-5)} + \underline{(x+7)(x+3)} \\ &= (x+3) \underline{(2x-5+x+7)} \\ &= (x+3) \underline{(3x+2)} \end{aligned}$$

$$\begin{aligned} & \underline{3x(x+1)} + \underline{3x(x+2)} \\ &= 3x \underline{(x+1+x+2)} \\ &= 3x \underline{(2x+3)} \end{aligned}$$

$$\begin{aligned} & \underline{2x(x-1)} - \underline{3(x-1)} \\ &= (x-1)(2x-3) \end{aligned}$$

$$\begin{aligned} & \underline{7(x-1)} + \underline{x(x-1)} \\ &= (x-1)(7+x) \\ & \text{Réponse : } (7+x) \end{aligned}$$

$$\begin{aligned} & \underline{3x(x-5)} - \underline{7(x-5)} \\ &= (x-5)(3x-7) \\ & \text{Réponse : } (3x-7) \end{aligned}$$

$$\begin{aligned} & (x+1) \underline{(x-3)} - \underline{2(x-3)} \\ &= (x-3) \underline{(x+1-2)} \\ &= (x-3) \underline{(x-1)} \\ & \text{Réponse : } (x-1) \end{aligned}$$

$$\begin{aligned} & \underline{2x(x+1)} - \underline{1(x+1)} \\ &= (x+1)(2x-1) \\ & \text{Réponse : } (2x-1) \end{aligned}$$



Factorisations

Compléter la factorisation :

$$3x - 12 = 3(\dots\dots\dots)$$



Factorisations

Compléter la factorisation :

$$5x + 20 = 5(\dots\dots\dots)$$



Factorisations

Compléter la factorisation :

$$42 - 35x = 7(\dots\dots\dots)$$



Factorisations

Compléter la factorisation :

$$3x - x^2 = x(\dots\dots\dots)$$



Factorisations

Compléter la factorisation :

$$20x + 12 = 4(\dots\dots\dots)$$



Factorisations

Compléter la factorisation :

$$x^3 - x^2 = x^2(\dots\dots\dots)$$



Factorisations

Compléter la factorisation :

$$6x - 3 = 3(\dots\dots\dots)$$



Factorisations

Compléter la factorisation :

$$8x^2 + 4x = 4x(\dots\dots\dots)$$

$$5x + 20 = 5(x + 4)$$

Réponse : $(x + 4)$

$$3x - 12 = 3(x - 4)$$

Réponse : $(x - 4)$

$$3x - x^2 = x(3 - x)$$

Réponse : $(3 - x)$

$$42 - 35x = 7(6 - 5x)$$

Réponse : $(6 - 5x)$

$$x^3 - x^2 = x^2(x - 1)$$

Réponse : $(x - 1)$

$$20x + 12 = 4(5x + 3)$$

Réponse : $(5x + 3)$

$$8x^2 + 4x = 4x(2x + 1)$$

Réponse : $(2x + 1)$

$$6x - 3 = 3(2x - 1)$$

Réponse : $(2x - 1)$



Factorisations

Compléter la factorisation :

$$10x - 5 = 5(\dots\dots\dots)$$



Factorisations

Compléter la factorisation :

$$4x^2 + 12 = 4(\dots\dots\dots)$$



Factorisations ★★

Factoriser

$$x^2 - 36$$



Factorisations ★★

Factoriser

$$x^2 - 81$$



Factorisations ★★

Factoriser

$$25 - x^2$$



Factorisations ★★

Factoriser

$$x^2 - 16$$



Factorisations ★

Compléter la factorisation :

$$-6x + 12 = -3(\dots\dots\dots)$$



Factorisations ★

Compléter la factorisation :

$$-2x - 8 = -2(\dots\dots\dots)$$

$$4x^2 + 12 = 4(x^2 + 3)$$

Réponse : $(x^2 + 3)$

$$10x - 5 = 5(2x - 1)$$

Réponse : $(2x - 1)$

$$x^2 - 81$$

$$= x^2 - 9^2$$

$$= (x - 9)(x + 9)$$

$$x^2 - 36$$

$$= x^2 - 6^2$$

$$= (x - 6)(x + 6)$$

$$x^2 - 16$$

$$= x^2 - 4^2$$

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

$$25 - x^2$$

$$= 5^2 - x^2$$

$$= (5 - x)(5 + x)$$

$$-2x - 8 = -2(x + 4)$$

Réponse : $(x + 4)$

$$-6x + 12 = -3(2x - 4)$$

Réponse : $(2x - 4)$

