

N°45056

Mettre sous la forme canonique.

$$x^2 - 14x + 43$$

$$\begin{cases} a = 1 \\ b = -14 \\ c = 43 \end{cases}$$

$$\alpha = -\frac{-14}{2 \times 1}$$

$$\alpha = \frac{14}{2}$$

$$\alpha = 7$$

$$\beta = f(\alpha)$$

$$\beta = f(7)$$

$$\beta = 7^2 - 14(7) + 43$$

$$\beta = -6$$

La forme canonique est :

$$f(x) = a(x - \alpha)^2 + \beta$$

Donc :

$$f(x) = 1(x - 7)^2 - 6$$

$$f(x) = (x - 7)^2 - 6$$

$(x - 7)^2 - 6$

Correct 😊