

Exercice IV :

indices : remplacer, $\sqrt{a^2} = \dots$, $45 = 5 \times \dots$

$$\begin{aligned} \text{Si } x = \sqrt{45}, E = 14x^2 - 25x + 6 &= 14 \times \sqrt{45^2} - 25 \times \sqrt{45} + 6 = 14 \times 45 - 25\sqrt{45} + 6 = 636 - 25\sqrt{9 \times 5} \\ &= 636 - 25 \times 3 \times \sqrt{5} = \boxed{636 - 75\sqrt{5}}. \end{aligned}$$