

مثال : بسط العبارات الاتية :

$\frac{3}{\sqrt{5}-2}$	$\begin{aligned}\frac{3}{\sqrt{5}-2} &= \frac{3}{\sqrt{5}-2} \cdot \frac{\sqrt{5}+2}{\sqrt{5}+2} \\ &= \frac{3(\sqrt{5}+2)}{5-4} \\ &= \frac{3\sqrt{5}+6}{1} \\ &= 3\sqrt{5}+6\end{aligned}$
$\sqrt{\frac{x^6}{y^7}}$	$\begin{aligned}\sqrt{\frac{x^6}{y^7}} &= \frac{\sqrt{x^6}}{\sqrt{y^7}} = \frac{x^{\frac{6}{2}}}{\sqrt{y^6} \cdot \sqrt{y}} = \frac{ x^3 }{y^{\frac{6}{2}} \cdot \sqrt{y}} \\ &= \frac{x^3}{y^3 \sqrt{y}} \cdot \frac{\sqrt{y}}{\sqrt{y}} = \frac{ x^3 \sqrt{y}}{y^4}\end{aligned}$
$4\sqrt{8} + 3\sqrt{50}$	$\begin{aligned}4\sqrt{8} + 3\sqrt{50} &= 4\sqrt{2 \times 2 \times 2} + 3\sqrt{5 \times 5 \times 2} \\ &= 4(2\sqrt{2}) + 3(5\sqrt{2}) \\ &= 8\sqrt{2} + 15\sqrt{2} = 23\sqrt{2}\end{aligned}$