

أجعل جذرية مقامات الأعداد التالية:

$$\frac{3}{\sqrt{3}} = \frac{3 \times \sqrt{3}}{\sqrt{3} \times \sqrt{3}} = \frac{3\sqrt{3}}{\sqrt{3}^2} = \frac{\cancel{3}\sqrt{3}}{\cancel{3}} = \boxed{\sqrt{3}}$$

$$\begin{aligned} \frac{2\sqrt{2}}{\sqrt{6}} &= \frac{2\sqrt{2} \times \sqrt{6}}{\sqrt{6} \times \sqrt{6}} = \frac{2\sqrt{12}}{\sqrt{6}^2} \\ &= \frac{2 \times 2\sqrt{3}}{6} = \boxed{\frac{2\sqrt{3}}{3}} \end{aligned}$$

$$\begin{aligned} \frac{1}{\sqrt{6} - \sqrt{2}} &= \frac{1 \times (\sqrt{6} + \sqrt{2})}{(\sqrt{6} - \sqrt{2})(\sqrt{6} + \sqrt{2})} = \frac{(\sqrt{6} + \sqrt{2})}{\sqrt{6}^2 - \sqrt{2}^2} \\ &= \boxed{\frac{\sqrt{6} + \sqrt{2}}{4}} \end{aligned}$$

$$\begin{aligned} \frac{\sqrt{7} - \sqrt{5}}{\sqrt{7} + \sqrt{5}} &= \frac{(\sqrt{7} - \sqrt{5})^2}{(\sqrt{7} + \sqrt{5})(\sqrt{7} - \sqrt{5})} \\ &= \frac{\sqrt{7}^2 - 2\sqrt{35} + \sqrt{5}^2}{\sqrt{7}^2 - \sqrt{5}^2} \\ &= \frac{12 - 2\sqrt{35}}{2} = \frac{\cancel{2}(6 - \sqrt{35})}{\cancel{2}} \\ &= \boxed{6 - \sqrt{35}} \end{aligned}$$

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