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Special products of radical expressions: Conjugates and squaring

$$(3\sqrt{x} + \sqrt{2})^2 \quad \text{FOIL!}$$

$$(3\sqrt{x} + \sqrt{2})(3\sqrt{x} + \sqrt{2})$$

outside $\times$ outside
 inside $\times$ inside

$$\begin{array}{r} 9\sqrt{x^2} + 3\sqrt{2x} \\ \quad \quad \quad + 3\sqrt{2x} + \sqrt{4} \\ \hline 9x + 6\sqrt{2x} + 2 \end{array}$$

$$(\sqrt{x} + \sqrt{2})(\sqrt{x} - \sqrt{2}) \quad \text{FOIL!}$$

$$\begin{array}{r} \sqrt{x^2} - \sqrt{2x} \\ \quad \quad \quad + \sqrt{2x} - \sqrt{4} \\ \hline x - 2 \end{array}$$

$$(\sqrt{x} - 2\sqrt{5})^2$$

$$\text{FOIL } (\sqrt{x} - 2\sqrt{5})(\sqrt{x} - 2\sqrt{5})$$

$$\begin{array}{r} \sqrt{x^2} - 2\sqrt{5x} \\ \quad \quad \quad - 2\sqrt{5x} + 4\sqrt{25} \\ \hline x - 4\sqrt{5x} + 20 \end{array}$$

$$x - 4\sqrt{5x} + 20$$

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