

## Multiply Radical Expressions

Simplify the radical expressions.

$$(\sqrt{11} - \sqrt{7})(\sqrt{11} + \sqrt{7})$$

$$(\sqrt{3} - \sqrt{7})(3\sqrt{7} + \sqrt{3})$$

$$(-2\sqrt{3} + \sqrt{2})(3\sqrt{3} + 5\sqrt{2})$$

$$(3\sqrt{7} - \sqrt{5})(3\sqrt{7} + \sqrt{5})$$

$$(2\sqrt{3} - \sqrt{5})(3\sqrt{3} + \sqrt{5})$$

$$(2\sqrt{11} - \sqrt{9})(3\sqrt{9} + \sqrt{11})$$

## Multiply Radical Expressions

Simplify the radical expressions.

$$\begin{aligned} & (\sqrt{11} - \sqrt{7})(\sqrt{11} + \sqrt{7}) \\ & = 4 \end{aligned}$$

$$\begin{aligned} & (\sqrt{3} - \sqrt{7})(3\sqrt{7} + \sqrt{3}) \\ & = 2\sqrt{21} - 18 \end{aligned}$$

$$\begin{aligned} & (-2\sqrt{3} + \sqrt{2})(3\sqrt{3} + 5\sqrt{2}) \\ & = -7\sqrt{6} - 8 \end{aligned}$$

$$\begin{aligned} & (3\sqrt{7} - \sqrt{5})(3\sqrt{7} + \sqrt{5}) \\ & = 58 \end{aligned}$$

$$\begin{aligned} & (2\sqrt{3} - \sqrt{5})(3\sqrt{3} + \sqrt{5}) \\ & = -\sqrt{15} + 13 \end{aligned}$$

$$\begin{aligned} & (2\sqrt{11} - \sqrt{9})(3\sqrt{9} + \sqrt{11}) \\ & = 15\sqrt{11} - 5 \end{aligned}$$