

## Multiply Radical Expressions

Simplify the radical expressions.

$$\sqrt{2}(-\sqrt{5} + \sqrt{10})$$

$$\sqrt{10}(\sqrt{4} + \sqrt{6})$$

$$\sqrt{3}(5 + \sqrt{27})$$

$$\sqrt{3x}(\sqrt{5x} - \sqrt{8})$$

$$\sqrt{12}(3 + \sqrt{3})$$

$$-\sqrt{2x}(-\sqrt{5} + \sqrt{10x})$$

## Multiply Radical Expressions

Simplify the radical expressions.

$$\begin{aligned}\sqrt{2}(-\sqrt{5} + \sqrt{10}) \\ = -\sqrt{10} + 2\sqrt{5}\end{aligned}$$

$$\begin{aligned}\sqrt{10}(\sqrt{4} + \sqrt{6}) \\ = 2\sqrt{10} + 2\sqrt{15}\end{aligned}$$

$$\begin{aligned}\sqrt{3}(5 + \sqrt{27}) \\ = 5\sqrt{3} + 9\end{aligned}$$

$$\begin{aligned}\sqrt{3x}(\sqrt{5x} - \sqrt{8}) \\ = x\sqrt{15} - 2\sqrt{6x}\end{aligned}$$

$$\begin{aligned}\sqrt{12}(3 + \sqrt{3}) \\ = 6\sqrt{3} + 6\end{aligned}$$

$$\begin{aligned}-\sqrt{2x}(-\sqrt{5} + \sqrt{10x}) \\ = \sqrt{10x} - 2x\sqrt{5}\end{aligned}$$