Multiply Radical Expressions

Simplify the radical expressions.

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

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

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

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

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

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

Multiply Radical Expressions

Simplify the radical expressions.

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

$=-\sqrt{10}+2\sqrt{5}$

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

$=2\sqrt{10}+2\sqrt{15}$

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

$=5\sqrt{3}+9$

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

$=x\sqrt{15}-2\sqrt{6x}$

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

$=6\sqrt{3}+6$

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

$=\sqrt{10x}-2x\sqrt{5}$