

Add & Subtract $\sqrt{\text{Radicals}}$

When adding and subtracting radicals think of "like terms". The indices and radicands must be the same before you add/subtract the factors in front.



Simplify $5\sqrt{3} + 3\sqrt{3}$
 $(5 + 3)\sqrt{3} =$
 $8\sqrt{3}$
 Radicals are the same. Add the factors, keep the radical.

Simplify $5\sqrt{3} + 2\sqrt{12}$ — first simplify $\sqrt{12}$
 $5\sqrt{3} + 2\sqrt{4 \cdot 3}$
 $5\sqrt{3} + 2 \cdot 2\sqrt{3}$
 $5\sqrt{3} + 4\sqrt{3}$
 $9\sqrt{3}$

Try It

Simplify $3\sqrt{3} - 2\sqrt{3}$ $= \sqrt{3}$	Simplify $4\sqrt{5} - \sqrt{5} + \sqrt{5}$ $= 4\sqrt{5}$
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Try It

Simplify $2\sqrt{3} - 3\sqrt{3}$ $= -\sqrt{3}$	Simplify $\sqrt{18} - \sqrt{18} + 6\sqrt{3}$ $= 6\sqrt{3}$
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Multiply & Divide $\sqrt{\text{Radicals}}$

Multiply

Outside • outside, inside • inside, simplify.

$2\sqrt{3} \cdot 4\sqrt{5} = 8\sqrt{15}$
 $3\sqrt{2} \cdot 5\sqrt{3} = 15\sqrt{6}$

Simplify.
 $\sqrt{11} \cdot \sqrt{11} = 11$
 $-5\sqrt{18} \cdot 3\sqrt{12} = -90\sqrt{6}$

Divide

The radical symbol can open both numerator and denominator.

$\frac{\sqrt{8}}{\sqrt{2}} = \sqrt{\frac{8}{2}} = \sqrt{4} = 2$

Simplify.
 $\frac{6\sqrt{3}}{\sqrt{18}} = \frac{2\sqrt{18}}{\sqrt{18}} = 2$
 $\frac{2\sqrt{128}}{\sqrt{18}} = \frac{2\sqrt{64 \cdot 2}}{\sqrt{9 \cdot 2}} = \frac{2 \cdot 8\sqrt{2}}{3\sqrt{2}} = \frac{16}{3}$

Rationalize Denominator

A simplified radical can't stay in the denominator.

Example: $\frac{2}{\sqrt{3}}$
 Multiply numerator and denominator by the radical. Then reduce if possible.

Simplify.
 $\frac{2}{\sqrt{3}} \cdot \frac{\sqrt{3}}{\sqrt{3}} = \frac{2\sqrt{3}}{3}$
 $\frac{4}{\sqrt{2}} \cdot \frac{\sqrt{2}}{\sqrt{2}} = \frac{4\sqrt{2}}{2} = 2\sqrt{2}$
 $\frac{6\sqrt{2}}{\sqrt{3}} \cdot \frac{\sqrt{3}}{\sqrt{3}} = \frac{6\sqrt{6}}{3} = 2\sqrt{6}$

Perfect Squares = 1, 4, 9, 16, 25, 36, 49, 64, 81, 100, 121, 144, ...

Kuta Add Subtract Multiply And Divide Radicals

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