

## Surds

Simplify the following Surds

$\frac{\sqrt{200}}{\sqrt{45}}$	$\frac{\sqrt{18}}{3\sqrt{50}}$	$\frac{\sqrt{50}}{2\sqrt{18}}$	$\frac{\sqrt{48}}{10\sqrt{75}}$
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Multiply the following surds together

$\frac{\sqrt{3}(\sqrt{3} + 2)}{(\sqrt{2} + 4)(\sqrt{2} + 3)}$	$\frac{\sqrt{7}(5 - \sqrt{7})}{(\sqrt{7} + 2)(\sqrt{7} - 2)}$	$\frac{2\sqrt{3}(\sqrt{3} + \sqrt{2})}{(3\sqrt{2} + 5)(4\sqrt{2} - 3)}$
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Evaluate the following

$\frac{(\sqrt{3} + 2)^2}{(3\sqrt{2} + \sqrt{8})^2}$	$\frac{(\sqrt{3} - 2)^2}{(\sqrt{200} + \sqrt{2})^2}$	$\frac{(3\sqrt{2} + 1)^2}{(3 - \sqrt{2})(4 + \sqrt{18})}$
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