Cheatography

chapter 3 (surds and exponential growth) Cheat Sheet by mingu via cheatography.com/147090/cs/31934/

surds	
$^{n}\sqrt{x} = y$	₅√32 = 2
$y^n = x$	2 ⁵ = 32
$(\sqrt{x})^2 = x$	
$\sqrt{\chi^2} = \chi$	
$\sqrt{xy} = \sqrt{x} \times \sqrt{y}$	

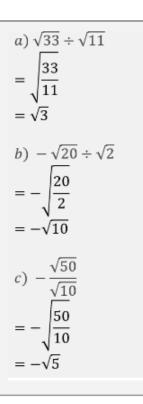
surds (adding and subtracting surds)

Q) Simplify the following a) $\sqrt{8} + \sqrt{2}$ = $\sqrt{4 \times 2} + \sqrt{2}$ = $2\sqrt{2} + \sqrt{2}$ = $3\sqrt{2}$ b) $\sqrt{27} + \sqrt{3}$ = $\sqrt{9 \times 3} + \sqrt{3}$ = $3\sqrt{3} + \sqrt{3}$ = $4\sqrt{3}$

multiplying surds

a) $\sqrt{5} \times \sqrt{17}$ = $\sqrt{85}$ b) $3\sqrt{7} \times 2\sqrt{5}$ = $3 \times 2\sqrt{7 \times 5}$ = $6\sqrt{35}$ c) $-\sqrt{6} \times -\sqrt{11}$ = $-1 \times -1 \times \sqrt{6 \times 11}$ = $+1\sqrt{66}$

dividing surds



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