Cheatography

Grade 11 Precal Radicals Cheat Sheet by katiemc8 via cheatography.com/174181/cs/36592/

Radicals		Mixed to Entire	Entire to Mixed
A_{\cdot}	$\sqrt[n]{x}$	$\begin{array}{l} x\sqrt{3}) = \sqrt{(x)(x)(x)(3)} = \sqrt{3}x^2 \\ \ \ ^{3}\sqrt{4x}) = {}^{3}\sqrt{(x)(x)(x)(x)((x)(4)(x))} = \\ \ \ ^{3}\sqrt{4x} \end{array}$	√50 = (Factor tree) √(5)(5)(2)) = 5√2 x√18x⁴y)
A = coefficient n = index		Entire to Mixed	
= radical x = radicand		$\sqrt{50}$ = (Factor tree) $\sqrt{(5)(5)(2)}$ = 5 $\sqrt{2}$	
Like vs. Unlike Radicals		$x\sqrt{18^4}$ = (Factor tree [18 = {2,9}] Perfect square) = $x\sqrt{9}\sqrt{2}\sqrt{x^4}\sqrt{y}$ =	
$\sqrt{3}$ and $2\sqrt{3}$	$2\sqrt{3}$ and $2\sqrt{4}$	$(3x)x^2\sqrt{2y} = 3x^2\sqrt{2y}$ Factor the radicand, so all factors are outside and look for	
radicands are the same	radicands are not the same		
Mixed vs. Entir	e	perfect squares.	
Mixed	Entire	x√18x⁴y)	
2√3	√12		
³√5	³√40		
a≠1	a=1		



By katiemc8

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