

Grade 11 Precal Radicals Cheat Sheet

by katiemc8 via cheatography.com/174181/cs/36592/

Radicals

Mixed to Entire

$x\sqrt{3}$) = $\sqrt{(x)(x)(x)(3)}$) = $\sqrt{3}x^2$
$^{3}\sqrt{4}x) = ^{3}\sqrt{(x)(x)(x)((x)(4)(x))} =$
³ √4x

Entire to Mixed

 $\sqrt{50}$ = (Factor tree) $\sqrt{(5)(5)(2)}$ = $5\sqrt{2}$ x√18x⁴y)

A = coefficient

n = index

 $\sqrt{\ }$ = radical

x = radicand

√3 and 2√3 $2\sqrt{3}$ and $2\sqrt{4}$ radicands are radicands are not the same the same

Like	vs.	Unli	ke F	Rad	ical	s

Mixed vs. Entire	
Mixed	Entire
2√3	√12
3√5	³√40
a≠1	a=1

Entire to Mixed

 $\sqrt{50}$ = (Factor tree) $\sqrt{(5)(5)(2)}$ =

 $x\sqrt{18^4}$ = (Factor tree [18 = {2,9}] Perfect square) = $x\sqrt{9}\sqrt{2}\sqrt{x^4}\sqrt{y}$ = $(3x)x^2\sqrt{2y} = 3x^2\sqrt{2y}$

Factor the radicand, so all factors are outside and look for perfect squares.

x√18x⁴y)



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Not published yet. Last updated 19th January, 2023. Page 1 of 1.

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