## 2.3 adding and subtracting radicals

Tuesday, October 20, 2015 9:46 AM

## Pre-Calculus 11 2.3

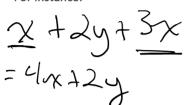
## **Adding and Subtracting Radical Expressions** Notes

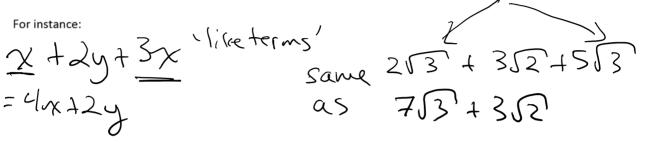
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The same strategies for simplifying polynomials can be used for radicals. Like terms or like radicals must have the same

radicand and the same index

For instance:





Example1: Simplify

a) 
$$8\sqrt{7} - 2\sqrt{7}$$

$$= 6\sqrt{7}$$

Example 2: Identify the values of the variables for which each radical is defined, then simplify

a) 
$$6\sqrt{a} + 5\sqrt{a} - 11\sqrt{a}$$
  $a = 7$ 

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**Adding and Subtracting Radical Expressions** 

Notes

= \sqrt{25.2.a2b} - \sqrt{4.2a2b} \quad \q

= 3/2/26

b)  $\sqrt{50a^2b} - \sqrt{8a^2b}$   $C^2 > 0$   $C^2 = |\alpha|$ 

c)  $\sqrt[3]{27p^3q} + 8\sqrt[3]{p^3q}$  Trzy C =  $3p\sqrt[3]{9} + 8p\sqrt[3]{9}$  P, q ETR =11239

Example 3: Simplify

a) 
$$7\sqrt{m} + 2\sqrt{n} + 6\sqrt{n} - 3\sqrt{m}$$
,  $nm \ge 0$ 

b) 
$$3\sqrt{32a^5} - 2\sqrt{45b^3} + 5b\sqrt{125b} - 2a\sqrt{72a^3} \ a, b \ge 0$$
  $\searrow 0 \ \bigcirc \ \bigcirc \bigcirc$ 

(Oct. 28)

Assignment: quiz 2.1-2.2-1 -> Next week Wednesday (2.(/2.2) HW: Do all questions 2.3 WB