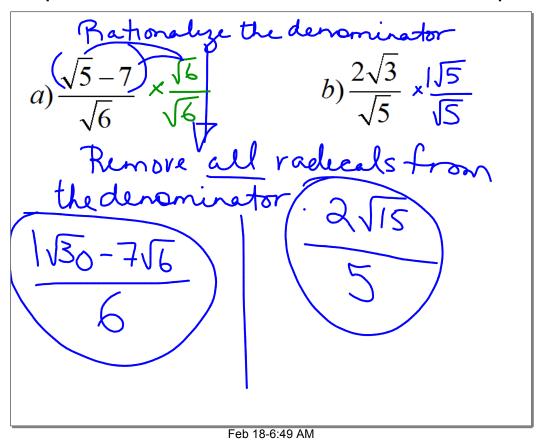
## 2.10 Combined Operations on Radicals

Review Distributive Law (FOIL)

a) 
$$2x(3x + 5y)$$
  
b)  $(x-3)(x+4)$   
 $(x-3)(x+4)$   
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 $(x-3)(x+4)$   
 $(x-3)(x+4)$   
 $(x-3)(x+4)$ 

Feb 18-6:44 AM

a) 
$$2\sqrt{3}(4\sqrt{5}-3\sqrt{7})$$
  
8\sqrt{15} -6\sqrt{21}  
b)  $(3\sqrt{2}-1\sqrt{5})(1\sqrt{2}+4\sqrt{5})$   
3\sqrt{4} + 12\sqrt{10} - 1\sqrt{10} - 4\sqrt{25}  
3\(2\) - 4\(\sqrt{5}\)  
6 + 1\sqrt{1\sqrt{10}} - 20  
c)  $(2\sqrt{3}+1)^2$   
 $(2\sqrt{3}+1)^$ 



Binomial Denominators (Conjugate)

$$a)\frac{9}{\sqrt{11}-\sqrt{8}}$$

$$b)\frac{\sqrt{7}-\sqrt{3}}{\sqrt{5}+\sqrt{3}}$$

$$(c)\frac{2\sqrt{2}+3}{4\sqrt{2}-5}$$

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**Common Denominators** 

$$a)\frac{1}{\sqrt{2}} - \frac{1}{\sqrt{6}}$$

$$b)\frac{2}{\sqrt{7}} - \frac{3}{\sqrt{5}}$$

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Assignment: Pg. 139 2, 5, 8, 13 - 15, 17 ALL Odds