5.2b Operations with Radicals

*	a denominator means] (the irrational
part) from the o	denominator.		
Case 1: The d	enominator is of the for	m a√b. Only the √b part	needs "fixing"
ex.a)	b)	c)	

Case 2: The denominator is a binomial with radicals.

ex.
$$\frac{3}{5 - \sqrt{2}}$$

Definition: two binomial factors are called conjugates if their product is the difference of two squares... (a + b) and (a - b) are conjugates

recall:
$$(a + b)(a - b) =$$

* To simplify case 2 expressions. we must multiply both numerator and denominator by the conjugate of the denominator

ex.
$$\frac{3}{5 - \sqrt{2}}$$

ex. a) b)

homefun: pg. 289 #8-14, 16-20, 22-25