Hmwk: pg 182 #2-4(ace), 5-8

**Factoring a Sum and Difference of Cubes**

Recall: Difference of Squares



Factor the following by recognizing that it is a difference of squares.

a)  b)  c) 

Note: There is no such thing as factoring a sum of squares.

For a binomial made up of two terms that are each cubes, there is a factoring rule for both sums and differences; see below.

Example 1

Determine the factors of a sum of cubes and difference of cubes by dividing the following.

a)  b) 

Sum of Cubes Difference of Cubes

 

Example 2

Factor the following:

a)  b)  c)