Homework: pg 485 #1-3(ace), 4a, 5ace, 6ab, 7, 8ace, \*12, 14, 16

**Solving Exponential Equations**

**Example 1**

Solve the following exponential equation using multiple techniques.

Method 1 (Using Logarithms) Method 2 (Using Common Base)

**Example 2**

Solve the following using common bases.

1. b)

**Example 3**

Solve the following exponential equations.

a) b)

**Example 4**

Solve the following exponential equations.

a)b)

**Example 5**

Solve the following exponential equation.

**Example 6**

Marylou puts $5000 into a bank account that earns 5% compounded annually. She wishes to purchase a car that is currently worth $25,000. The car depreciates at a rate of 12% each year. When will she be able to purchase the car?