**3.5 Exponential and Logarithmic Models**

**Objective: Solve real life exponential and log equations**

**Exponential Growth:** b > 0

**Exponential Decay:**  b > 0

***Compound Interest Formula:***

***Compound Continuously Formula:***

**Example:**

You have deposited $600 in an account that pays 7.5% interest compounded continuously. Use the , where P is in initial deposit r is the percent (written as decimal) and t is the time in years. How long will it take to double your money? Triple?

**Homework**

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