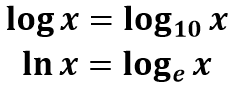
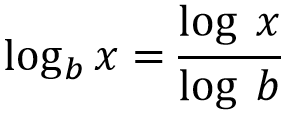
**Algebra 2 Homework Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Solving Log/Exp Equations – Mixed Practice Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period: \_\_\_\_\_\_\_\_**

**LOGARITHMIC FORM EXPONENTIAL FORM CHANGE OF BASE FORMULA SPECIAL BASES**









**We have learned how to solve 3 different equation types:**

1. Equations requiring rewriting from Logarithmic Form 🡪 Exponential Form
2. Equations requiring rewriting from Exponential Form 🡪 Logarithmic Form
   1. Change of Base Formula needed
3. Equations using One-to-One Property

**1.) Identify the mistake each student made when solving. Then solve the equation correctly.**

**Brent Lily Isaac Solve correctly:**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

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**Mixed Practice - solve each equation for x. If necessary, round to the hundredths.**

**2.) 3.)**

**Mixed Practice - solve each equation for x. If necessary, round to the hundredths.**

**4.) 5.)**

**6.) 7.)**

**8.) 9.)**

**10.) 11.)**

**12.)** Your bank account balance can be modeled by the following equation:

where t represents the number of years that have passed.

How many years will it for your balance to reach $17,500? Round to the nearest tenths.

**13.)** Your bank account balance can be modeled by the following equation:

where t represents the number of years that have passed.

How many years will it for your balance to reach $5,500? Round to the nearest tenths.