**Honors Math 3** Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Unit 5 Review

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| 1. Find the inverse of and graph both functions. Then, state the domain, range, and asymptote of both.

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|  | **Domain** | **Range** | **Asymptote** |
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 | 1. Find the inverse of and graph both functions. Then, state the domain, range, and asymptote of both.

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|  | **Domain** | **Range** | **Asymptote** |
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| 1. You invest $2,500 at 4% interest compounded monthly. How much will you have in your account after 6 years?
 | 1. You invest $2,000 at 12% interest compounded continuously. How much will you have in your account after 9 years?
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| 1. You want to double your investment of $2000. You invest at 8%. How long will it take to double your investment if interest is compounded continuously?
 | 1. You deposit $3100 into an account that earns 4% interest compounded continuously. How long will it take the account to triple?
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**Solve each equation. Round each answer to the hundredths.**

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| 1. Convert to log:
 | 1. Convert to exponential
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| 1. Condense the following logarithms:
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