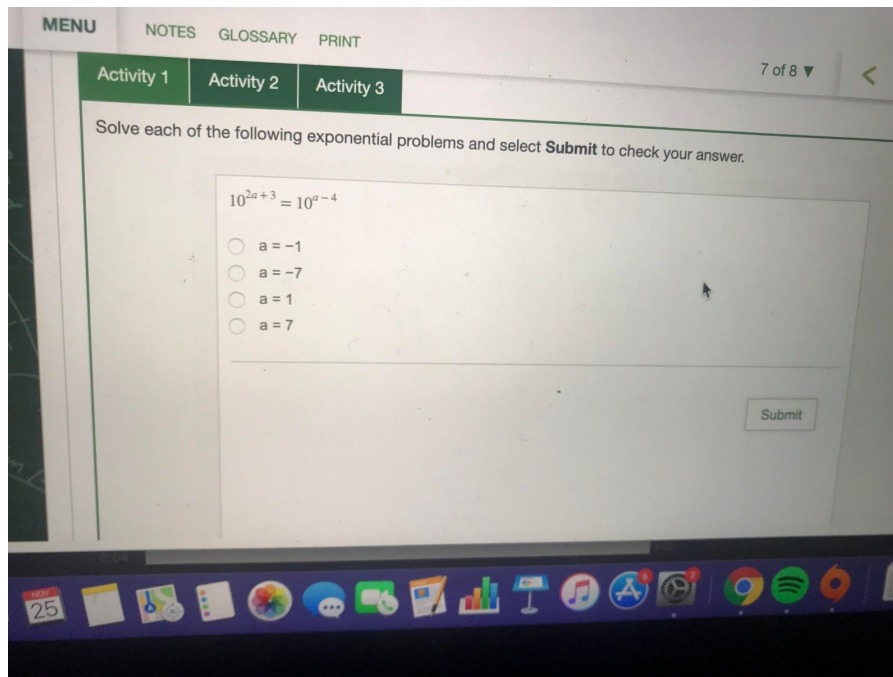


Assignment

1. Read the examples in the lesson and work out the practice problems on your own paper. Be sure to check your answers.
2. To achieve mastery of this lesson, make sure that you develop responses to the following essential questions

Essential Questions

- How is an exponential function created?
- How can the properties of exponents help solve exponential equations?
- What are some real-world applications for exponential functions?



07.01 Exponential Functions Module 07: Exponential and Logarithmic Functions

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Activity 1 Activity 2 Activity 3

Solve each exponential growth problem and select **Submit** to check your answer.

If \$75 is invested at an interest rate of 8% per year and is compounded monthly, how much will the investment be worth in 15 years?

- ☐ \$237.91
- ☐ \$248.02
- ☐ \$642.45
- ☐ \$832.21

Submit

07.01 Exponential Functions Module 07: Exponential and Logarithmic Functions

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Activity 1 Activity 2 Activity 3

Solve each exponential decay problem and select **Submit** to check your answer.

A sofa depreciates at 20% of its original value each year. If the sofa was \$349 at its time of purchase, what is the value of the sofa after 4 years? Round your answer to the nearest cent.

- ☐ \$142.95
- ☐ \$321.91
- ☐ \$454.82
- ☐ \$558.40

Submit