Practice 8-2 B

Nicha!

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Evaluate each expression to four decimal places.

1. e^2

2. $e^{-2.5}$

3. e3

4. e^{√2}

- The formula $A = 6000e^n$ can be used to find the dollar value of an investment of \$6000 after t years when the interest is compounded continuously at a rate of r percent.
 - a. Find the value of the investment after 6 years if the interest rate is 7%.
 - b. Find the value of the investment after 8 years if the interest rate is 8%.
- . The formula $A = 4000e^{rt}$ can be used to find the dollar value of an investment of \$4000 after t years when the interest is compounded continuously at a rate of r percent.
 - a. Find the value of the investment after 8 years if the interest rate is 5%.
 - b. Find the value of the investment after 9 years if the interest rate is 8%.
- -7 .. Marion decides to invest \$5000 at 5% interest compounded continuously. Find the value of the investment after two years.
- \Im . True or False: The formula for interest compounded continuously is $A = pe^n$.

Describe how the graph of each Function relates to its Parent Function. Then graph

Parent Function: y=5x

9 4=5x-1

(10) y= 5x+2

y = 5 + 3

Nrite the new Function for the Pavent Function y=ab that was shifted 3 units right and 2 units