

Bell Work: Solve

1.) $5(3)^{6x-12} + 12 = 32$

2.) $4\log_2(2x + 9) - 21 = 3$


From Last Time

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PRE-CALC TRIG

Day 26



3.5 Exponential and Log Models

Objectives: To apply and solve real life problems involving exponential and logarithmic equations

Formulas

Exponential Growth: $y = ae^{bx}$

Exponential Decay: $y = ae^{-bx}$

Compound Interest Formula: $A = P(1 + \frac{r}{n})^{nt}$

Compound Continuously Formula: $A = Pe^{rt}$

Example

You have \$200 to deposit. Your bank has two options for your investment. You can either put it into an account with 5.2% interest compounded continuously or an account with 5.6% compounded monthly. How long will it take for each account to triple your money, and which account are you more likely to pick? Why?

For Next Time

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