

mobius

Exponential Function Decay (Continuous) - Equation to Scenario



Which scenario describes this equation?

 $596 = 700 \cdot e^{(-0.02 \cdot 8)}$

Which scenario describes this equation?

 $723 = 800 \cdot e^{(-0.05 \cdot 2)}$

- A whale population starts at 700. It declines continuously at 2% per year. After 8 years it has
- B A whale population starts at 800. It declines continuously at 2% per year. After 7 years it has
- Which scenario describes this equation?
- A bacteria population starts at 200. It declines continuously at 5% per year. After 8 years it has
- A bacteria population starts at 800. It declines continuously at 5% per year. After 2 years it has
- Which scenario describes this equation?

 $532 = 600 \cdot e^{(-0.03 \cdot 4)}$

- $123 = 200 \cdot e^{(-0.06 \cdot 8)}$
- A A whale population starts at 600. It declines continuously at 3% per quarter. After 4 quarters it
- B A whale population starts at 400. It declines continuously at 3% per quarter. After 6 quarters it
- Which scenario describes this equation?
- A A radioactive material starts at an isotope concentration of 200ppm. It decays continuously
- B A radioactive material starts at an isotope concentration of 600ppm. It decays continuously
 - Which scenario describes this equation?

 $159 = 300 \cdot e^{(-0.09 \cdot 7)}$

A A whale population starts at 300. It declines

continuously at 9% per year. After 7 years it has

- A whale population starts at 900. It declines continuously at 3% per year. After 7 years it has
- 7 Which scenario describes this equation?

- $217 = 300 \cdot e^{(-0.04 \cdot 8)}$
- A A radioactive material starts at an isotope concentration of 800ppm. It decays continuously
- A radioactive material starts at an isotope concentration of 300ppm. It decays continuously
 - Which scenario describes this equation?

 $486 = 600 \cdot e^{(-0.03 \cdot 7)}$

- A A toxin starts at a concentration of 600mg/L. It declines continuously at 3% per hour. After 7
- B A toxin starts at a concentration of 300mg/L. It declines continuously at 6% per hour. After 7
- A bacteria population starts at 500. It declines continuously at 2% per day. After 4 days it has

 $361 = 400 \cdot e^{(-0.02 \cdot 5)}$

A bacteria population starts at 400. It declines continuously at 2% per day. After 5 days it has

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8