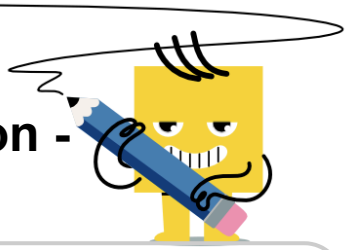
Name

Exponential Function Solution Equation - Growth (Continuous) Scenario to Rate



1

A company's share price starts at $500. It grows continuously at a certain percent growth per quarter. After 6 quarters it has a share price of $808.

Rearrange the exponential equation to solve for for the rate given this scenario?

A $r = +\frac{e^{\frac{808}{500}}}{6}$

B $r = +\frac{\ln\frac{808}{500}}{6}$

2

A savings account starts with $500. It grows continuously at a certain percent interest per month. After 2 months it has $586.

Rearrange the exponential equation to solve for for the rate given this scenario?

A $r = +\frac{\ln\frac{500}{586}}{2}$

B $r = +\frac{e^{\frac{586}{500}}}{2}$

C $r = +\frac{\ln\frac{586}{500}}{2}$

3

A credit card starts with $300 of debt. It grows continuously at a certain percent interest per year. After 6 years the debt has grown to $404.

Rearrange the exponential equation to solve for for the rate given this scenario?

A $r = +\frac{\ln\frac{300}{404}}{6}$

B $r = +\frac{\ln\frac{404}{300}}{6}$

C $r = +\frac{e^{\frac{404}{300}}}{6}$

4

A company's share price starts at $500. It grows continuously at a certain percent growth per month. After 9 months it has a share price of $938.

Rearrange the exponential equation to solve for for the rate given this scenario?

A $r = +\frac{\ln\frac{500}{938}}{9}$

B $r = +\frac{\ln\frac{938}{500}}{9}$

C $r = +\frac{e^{\frac{938}{500}}}{9}$

5

A credit card starts with $200 of debt. It grows continuously at a certain percent interest per month. After 6 months the debt has grown to $323.

Rearrange the exponential equation to solve for for the rate given this scenario?

A $r = +\frac{\ln\frac{323}{200}}{6}$

B $r = +\frac{e^{\frac{323}{200}}}{6}$

C $r = +\frac{\ln\frac{200}{323}}{6}$

6

A company's share price starts at $900. It grows continuously at a certain percent growth per quarter. After 2 quarters it has a share price of $1,035.

Rearrange the exponential equation to solve for for the rate given this scenario?

A $r = +\frac{\ln\frac{1035}{900}}{2}$

B $r = +\frac{e^{\frac{1035}{900}}}{2}$

C $r = +\frac{\ln\frac{900}{1035}}{2}$

7

A company's share price starts at $200. It grows continuously at a certain percent growth per year. After 4 years it has a share price of $225.

Rearrange the exponential equation to solve for for the rate given this scenario?

A $r = +\frac{\ln\frac{225}{200}}{4}$

B $r = +\frac{\ln\frac{200}{225}}{4}$

C $r = +\frac{e^{\frac{225}{200}}}{4}$

8

A bacteria population starts at 200. It grows continuously at a certain percent growth per year. After 9 years it has increased to a population of 261.

Rearrange the exponential equation to solve for for the rate given this scenario?

A $r = +\frac{e^{\frac{261}{200}}}{9}$

B $r = +\frac{\ln\frac{200}{261}}{9}$

C $r = +\frac{\ln\frac{261}{200}}{9}$