

Compound Interest

Formulas

New Vocabulary

Compound Interest

How much money do you have if you invest \$1,000 at 5% compounded semi-annually for 3 years?

How much money do you have if you invest \$1,000 at 5% compounded monthly for 3 years?

How much money do you have if you invest \$1,000 at 5% compounded daily for 3 years?

How much money do you have if you invest \$1,000 at 5% compounded continuously for 3 years?

An infectious disease begins to spread in a small city of a population of 10,000. After t days, the number of people who have been infected is

$$v(t) = \frac{10000}{5 + 1245e^{-0.97t}}$$

- How many people initially have the disease?
- How many people have the disease after 2 days?

SUMMARY