Name

Exponential Function Decay (Continuous) - Term to Meaning

1

What does this term represent in a model of continuous reduction of a toxin concentration?

$$C = C_0 \cdot e^{(-r \cdot t)}$$
$$r = ?$$

A $r =$ final concentration

B $r =$ rate

C $r =$ time

2

What does this term represent in a model of continuous reduction of a toxin concentration?

$$C = C_0 \cdot e^{(-r \cdot t)}$$
$$C_0 = ?$$

A $C_0 =$ starting concentration

B $C_0 =$ rate

C $C_0 =$ time

3

What does this term represent in a model of continuous decline of a whale population?

$$P = P_0 \cdot e^{(-r \cdot t)}$$
$$r = ?$$

A $r =$ starting population

B $r =$ time

C $r =$ rate

4

What does this term represent in a model of continuous reduction of a toxin concentration?

$$C = C_0 \cdot e^{(-r \cdot t)}$$
$$t = ?$$

A $t =$ starting concentration

B $t =$ time

C $t =$ rate

D $t =$ final concentration

5

What does this term represent in a model of continuous decay of a radioactive material?

$$R = R_0 \cdot e^{(-r \cdot t)}$$
$$r = ?$$

A $r =$ final concentration

B $r =$ time

C $r =$ rate of decay

6

What does this term represent in a model of continuous decline of a whale population?

$$P = P_0 \cdot e^{(-r \cdot t)}$$
$$P = ?$$

A $P =$ rate

B $P =$ final population

C $P =$ time

7

What does this term represent in a model of continuous decay of a radioactive material?

$$R = R_0 \cdot e^{(-r \cdot t)}$$
$$R_0 = ?$$

A $R_0 =$ starting concentration

B $R_0 =$ rate of decay

8

What does this term represent in a model of a continuously declining bacteria population?

$$P = P_0 \cdot e^{(-r \cdot t)}$$
$$t = ?$$

A $t =$ rate

B $t =$ time

C $t =$ final population