HOMEWORK QUIZ – Exponential Functions

Name

Date: Form A

1. Evaluate $16e^{0.015x}$ when $x = 20$.
Round answer to three decimal places.

2. Given the function $f(x) = 3^x$ write an equation that would translate this graph 3 units left and 1 unit down.

3. Compute the exact value without using a calculator. $f(x) = -3 \cdot 5^x$ for $x = \frac{1}{2}$

4. Find the *y*-intercept and the horizontal asymptotes. $f(x) = \frac{9}{1+2e^{-x}}$

Grade:

HOMEWORK QUIZ – Exponential Functions

Name

Date: Form B

1. Evaluate $-5e^{0.002x}$ when $x = 65$.
Round answer to three decimal places

1. Given the function $f(x) = 2^x$ write an equation that would translate this graph 1 unit right and 4 units down.

3. Compute the exact value without using a calculator. $f(x) = 5 \cdot 2^x$ for $x = \frac{1}{3}$

4. Find the *y*-intercept and the horizontal asymptotes. $f(x) = \frac{12}{1+2 \cdot 0.8^x}$

Grade:

Jean Adams

HOMEWORK QUIZ – Exponential Functions

Name

Date: Form C

1. Evaluate $300e^{-0.076x}$ when $x = 15$.
Round answer to three decimal places:

2. Given the function $f(x) = 3^x$ write an equation that would translate this graph 2 units down and reflected across the y-axis.

3. Compute the exact value without using a calculator. $f(x) = -6 \cdot 3^x$ for $x = -2$

4. Find the y-intercept and the horizontal asymptotes. $f(x) = \frac{18}{1+5 \cdot 0.2^x}$

Grade:

HOMEWORK QUIZ – Exponential Functions

Name

Date: Form D

1. Evaluate $17e^{0.023x}$ when $x = 20$.
Round answer to three decimal places.

2. Given the function $f(x) = 2^x$ write an equation that would translate this graph 3 units right and 1 unit down.

3. Compute the exact value without using a calculator. $f(x) = -2 \cdot 9^x$ for $x = \frac{1}{2}$

4. Find the y-intercept and the horizontal asymptotes. $f(x) = \frac{8}{1+2e^{-x}}$

Grade:

Jean Adams