

Due: Wed Sep 3 2014 11:59 PM EDT

Question

1 2 3 4 5 6 7 8 9 10 11 12

1. Question Details

SCalcET6 1.5.015. [667248]

Find the domain of each function.

$$(a) f(x) = \frac{7}{9 + e^x}$$

- ☐ $(0, \infty)$
☐ $x \neq 0$
☒ $(-\infty, \infty)$
☐ $x \neq 9$

$$(b) f(x) = \frac{3}{1 - e^x}$$

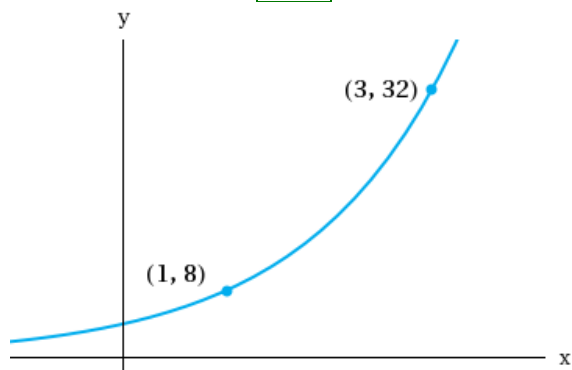
- ☐ $(0, \infty)$
☐ $x \neq 1$
☐ $(-\infty, \infty)$
☒ $x \neq 0$

2. Question Details

SCalcET6 1.5.017. [1816478]

Find the exponential function $f(x) = Ca^x$ whose graph is given. $f(x) =$

$$4 \cdot 2^x$$



3. Question Details

SCalcET6 1.6.033. [1817135]

Find the exact value of each expression.

(a) $\log_2 8$



(b) $\log_2 \left(\frac{1}{8}\right)$



4. Question Details

SCalcET6 1.6.034. [1817260]

Find the exact value of each expression.

(a) $\ln(1/e)$



(b) $\log_{17} \sqrt{17}$



5. Question Details

SCalcET6 1.6.035. [1817553]

Find the exact value of each expression.

(a) $\log_4 20 - \log_4 45 + \log_4 144$



(b) $\log_5 270 - \log_5 75 - \log_5 90$



6. Question Details

SCalcET6 1.6.036. [1817523]

Find the exact value of each expression.

(a) $e^{-2 \ln 10}$



(b) $\ln(\ln e^9)$



7. Question Details

SCalcET6 1.6.037. [1289695]

Express the given quantity as a single logarithm.

$\ln(2) + 2 \ln(3)$

8. Question Details

SCalcET6 1.6.039. [1288477]

Express the given quantity as a single logarithm.

$$\ln(1+x^5) + \frac{1}{2} \ln(x) - \ln(\sin(x))$$

$$\ln\left(\frac{(1+x^5) \cdot \sqrt{x}}{\sin(x)}\right)$$

9. Question Details

SCalcET6 1.6.040. [1816802]

Use the change-of-base formula to evaluate each logarithm correct to six decimal places.

(a) $\log_{13} 10$

 0.897712

(b) $\log_5 8.1$

 1.299748

10. Question Details

SCalcET6 1.6.047. [1289297]

Solve each equation for x. (Enter an exact answer.)

(a) $4\ln(x) = 1$

x =

$$e^{\frac{1}{4}}$$

(b) $e^{-x} = 5$

x =

$$-\ln(5)$$

11. Question Details

SCalcET6 1.6.048. [2175231]

Solve each equation for x. (Enter an exact answer.)

(a) $e^{7x} + 2 - 4 = 0$

x =

$$\frac{1}{7}(\ln(4) - 2)$$

(b) $\ln(7 - 9x) = -1$

x =

$$\frac{1}{9}\left(7 - \frac{1}{e}\right)$$

12. Question Details

SCalcET6 1.6.049. [1817211]

Solve each equation for x.

(a) $2^x - 6 = 2$

x =

$$\frac{\ln(2)}{\ln(2)} + 6$$

(b) $\ln x + \ln(x - 1) = 1$

x =

$$\frac{1}{2} \left(1 + \sqrt{1 + 4e} \right)$$

Assignment Details

Name (AID): **MATH 141 HW 02 (6244424)**Submissions Allowed: **100**Category: **Homework**

Code:

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