

View Attempt 0 of unlimitedTitle: **MATE 3012 - Parcial 1**

Started: January 15, 2013 6:04 PM

Submitted: January 15, 2013 6:05 PM

Time spent: 00:00:52

Comments:

Total score: 0/50 = 0% Total score adjusted by 0.0 Maximum possible score: 50**Done****1.**Calcule $23(2^{-3})$

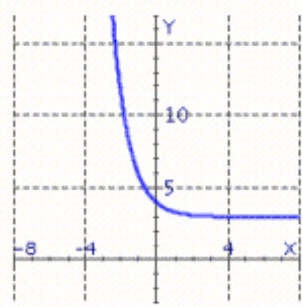
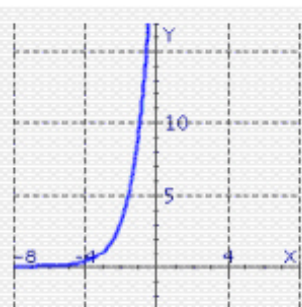
Redondee su resultado a la centésima más cercana. No entre comas ni el signo de dólar.


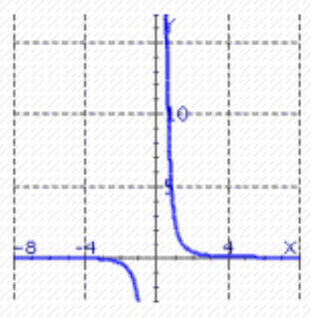
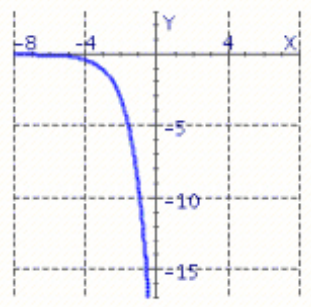
	Student Response	Value	Correct Answer
Answer:	not answered	0%	2.88

Score: 0/2.5

Comments:

2.Determine the graph of the function $y = 3^{x+3}$.

	Student Response	Value	Correct Answer	Feedback
A.				
B.			<input checked="" type="checkbox"/>	

Student Response	Value	Correct Answer	Feedback
C. 			
D. 			
E. 			

Score: 0/2.5

Comments:

3.

State the range of the function $y = 6 - e^x$.

Student Response	Value	Correct Answer	Feedback
A. $(-\infty, 6)$		<input checked="" type="checkbox"/>	
B. $(-\infty, \infty)$			
C. $[6, \infty)$			
D. $(-6, \infty)$			
E. $(0, \infty)$			

Score: 0/2.5

Comments:

4.

The population of a certain species of bird is limited by the type of habitat required for nesting. The population behaves according to the *logistic growth model*

$$n(t) = \frac{1,180}{0.2 + 22.7e^{-0.573t}}$$

where t is measured in years. What size does the population approach as time goes on?

Student Response	Value	Correct Answer	Feedback
A. 1,180			
B. 11,800			
C. 17,700			
D. 5,900		<input checked="" type="checkbox"/>	
E. 236			

Score: 0/2.5

Comments:

5.

Calcule el $\ln(0.3)$.

Nota: Redondée su respuesta a la milésima más cercana (3 lugares a la derecha del punt decimal).

Student Response	Value	Correct Answer
Answer: not answered	0%	-1.204

Score: 0/2.5

Comments:

6.

Express the equation in logarithmic form.

$$e^{x+9} = 0.2$$

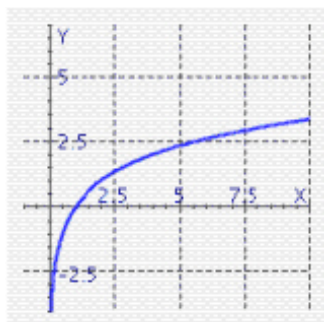
Student Response	Value	Correct Answer	Feedback
A. $x = 0.2 + \ln 9$			
B. $x = 9 + \ln 0.2$			

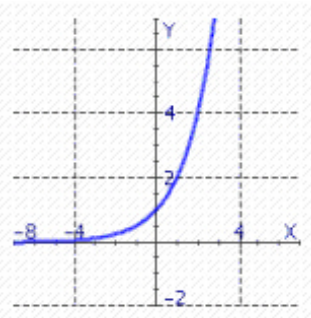
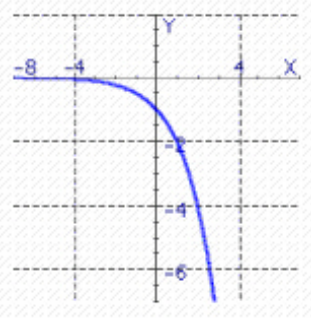
Student Response	Value	Correct Answer	Feedback
C. none of these			
D. $x = -9 + \ln 0.2$		<input checked="" type="checkbox"/>	
E. $x = 0.2 - \ln 9$			

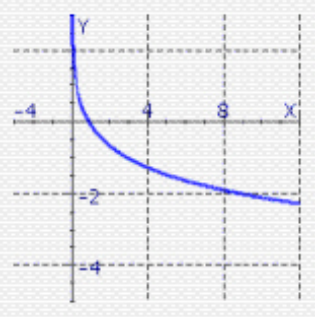
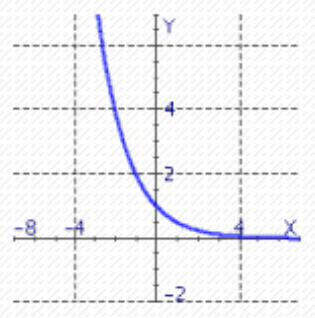
Score: 0/2.5

Comments:

7.

Use the graph of $y = \log_3 x$ to help you Identify the graph of $y = 3^x$.

Student Response	Value	Correct Answer	Feedback
A. 		<input checked="" type="checkbox"/>	
B. 			
C. none of these			

Student Response	Value	Correct Answer	Feedback
D. 			
E. 			

Score: 0/2.5

Comments:

8.

Simplifique la expresión.

$\ln(e^9)$

Student Response	Value	Correct Answer	Feedback
A. 9		<input checked="" type="checkbox"/>	
B. $9 \ln(e)$			
C. e^9			
D. 1			

Score: 0/2.5

Comments:

9.

Simplifique la expresión.

$\log_a(a^{1923})$

Student Response	Value	Correct Answer	Feedback
A. $1923 \log_a$			

Student Response	Value	Correct Answer	Feedback
(a)			
B. a^{1923}			
C. 1923		<input checked="" type="checkbox"/>	
D. 1			

Score: 0/2.5

Comments:

10.**Combine la expresión a una con un solo logaritmo.**

$$\log_3(19) - \log_3(15)$$

$$\left(\frac{19}{15}\right)$$

Student Response	Value	Correct Answer	Feedback
A. $\log_3(4)$			
B. $\log_6\left(\frac{19}{15}\right)$			
C. $\log_3\left(\frac{15}{19}\right)$			
D. $\log_3\left(\frac{19}{15}\right)$		<input checked="" type="checkbox"/>	

Score: 0/2.5

Comments:

11.**Combine la expresión a una con un solo logaritmo.**

$$\frac{1}{2} \ln 4 - \frac{1}{2} \ln 5$$

$$\sqrt[2]{\frac{4}{5}}$$

Student Response	Value	Correct Answer	Feedback
A. $\ln \sqrt[2]{\frac{4}{5}}$		<input checked="" type="checkbox"/>	
B. $\ln\left(\frac{5}{4}\right)^2$			

Student Response	Value	Correct Answer	Feedback
C. $\ln \frac{2\sqrt{5}}{\sqrt[4]{4}}$			
D. $\ln \left(\frac{4}{5}\right)^{-2}$			

Score: 0/2.5

Comments:

12.

Use the Laws of Logarithms to rewrite the expression below in a form with no logarithm of a product, quotient, or power.

$$\log_8 \left(\frac{x}{7} \right)$$

Student Response	Value	Correct Answer	Feedback
A. $(\log_8 x)$ $(\log_8 7)$			
B. $\log_8 x -$ $\log_8 7$		<input checked="" type="checkbox"/>	
C. $\log_8 x +$ $\log_8 7$			
D. $\frac{\log_8 x}{7}$			
E. $\frac{\log_8 x}{\log_8 7}$			

Score: 0/2.5

Comments:

13.

Use the Laws of Logarithms to rewrite the expression below in a form with no logarithm of a product, quotient, or power.

$$\log_7 (x(x - 5))$$

Student Response	Value	Correct Answer	Feedback

Student Response	Value	Correct Answer	Feedback
A. $\log_7 x + \log_7 x - 5$			
B. $2 \log_7 x - \log_7 5$			
C. $\log_7 x - \log_7 (x - 5)$			
D. $\log_7 x^2 - 5x$			
E. $\log_7 x + \log_7 (x - 5)$		<input checked="" type="checkbox"/>	

Score: 0/2.5

Comments:

14.

Expanda la expresión a una con una suma o diferencia de logaritmos o múltiplos de logaritmos.

$$\log_n \left(\frac{5 \sqrt{2x^5}}{z^6} \right)$$

$$\frac{6}{5}$$

Student Response	Value	Correct Answer	Feedback
A. $\frac{1}{5} \log_n (2) + 1 \log_n (x) - \frac{6}{5} \log_n (z)$		<input checked="" type="checkbox"/>	
B. $\frac{1}{5} \log_n (2) + 1 \log_n (x) + \frac{6}{5} \log_n (z)$			

Student Response	Value	Correct Answer	Feedback
$\log_n(z)$			
C. $\frac{1}{5} \log_n(2)$ - $1 \log_n(x)$ $(x) - \frac{6}{5}$ $\log_n(z)$			
D. $\log_n(2) +$ $5 \log_n(x)$ - $6 \log_n(z)$			

Score: 0/2.5

Comments:

15.

Expanda la expresión a una con una suma o diferencia de logaritmos o múltiplos de logaritmos.

$$\log_4(xy)$$

Student Response	Value	Correct Answer	Feedback
A. $\log_4(x) +$ $\log_4(y)$		<input checked="" type="checkbox"/>	
B. $\log_2(x) -$ $\log_2(y)$			
C. $\log_2(x) +$ $\log_2(y)$			
D. $\log_4(x) -$ $\log_4(y)$			

Score: 0/2.5

Comments:

16.

Resuelva $(1/2)^{4x+5} = (1/8)^{-3x+11}$

Nota: Redondee su resultado a la centésima más cercana.

	Student Response	Value	Correct Answer
Answer:	not answered	0%	2.15

Score: 0/2.5

Comments:

17.

Resuelva $4^{3x+3} = 16^{-3x-7}$

Nota: Redondée su resultado a la centésima más cercana.

	Student Response	Value	Correct Answer
Answer:	not answered	0%	-1.89

Score: 0/2.5

Comments:

18.

Resuelva por x , si $\log(4x + 4) = \log(5x - 14)$

Nota: Redondée tu resultado a la centésima más cercana.

	Student Response	Value	Correct Answer
Answer:	not answered	0%	18.00

Score: 0/2.5

Comments:

19.Solve the logarithmic equation for x .

$\log x = 5$

Student Response	Value	Correct Answer	Feedback
A. $x = 10,000$			
B. $x = 50,000$			
C. $x = 100,000$		<input checked="" type="checkbox"/>	
D. $x = 0.699$			
E. $x = 0.00001$			

Score: 0/2.5

Comments:

20.

Find the solution of the exponential equation, correct to four decimal places.

$$e^{2-3x} = 15$$

Student Response	Value	Correct Answer	Feedback
A. $x = 5.5190$			
B. $x = -2.7440$			
C. $x = 0.5436$		<input checked="" type="checkbox"/>	
D. $x = 2.7183$			
E. $x = -0.2360$			

Score: 0/2.5

Comments:

Done

This document was created with Win2PDF available at <http://www.win2pdf.com>.
The unregistered version of Win2PDF is for evaluation or non-commercial use only.
This page will not be added after purchasing Win2PDF.