

View Attempt 0 of 1

Title: **MATE 3013 Parcial 2**
 Started: August 2, 2010 12:11 PM
 Submitted: August 2, 2010 12:12 PM
 Time spent: 00:01:11
 Comments:

Total score: 0/40 = 0% | Total score adjusted by 0.0 | Maximum possible score: 40

Done

1.

Encuentre $D_x y$.

$$y = -6x^5$$

Student Response	Value	Correct Answer	Feedback
A. $-30x^4$		<input checked="" type="checkbox"/>	
B. $-30x^6$			
C. $-6x^4$			
D. $-30x^5$			

Score: 0/2

Comments:

2.

Encuentre la derivada.

$$y = 13 - 13x^2$$

Student Response	Value	Correct Answer	Feedback
A. -26			
B. $-26x$		<input checked="" type="checkbox"/>	
C. $13 - 26x$			
D. $13 - 13x$			

Score: 0/2

Comments:

3.

Encuentre $D_x y$.

$$y = x + \pi^7$$

Student Response	Value	Correct Answer	Feedback
A. $1 + 7\pi^8$			
B. 1		<input checked="" type="checkbox"/>	
C. $x + 7\pi^6$			
D. $1 + 7\pi^6$			

Score: 0/2

Comments:

4.

Encuentre $D_x y$.

$$y = -3x^4 - 3x - 9$$

Student Response	Value	Correct Answer	Feedback
A. $-12x^3 - 3$		<input checked="" type="checkbox"/>	
B. $-3x^3 - 3x - 9$			
C. $-3x^3 - 3$			
D. $-12x^3 - 3x - 9$			

Score: 0/2

Comments:

5.

Calcule la derivada de la función. Entonces, encuentre la derivada en el valor indicado.

$$g(x) = -\frac{2}{x}; g'(-2)$$

$$\frac{1}{2}$$

Student Response	Value	Correct Answer	Feedback
A. $g'(x) = -\frac{2}{x^2}; g'(-2) = -\frac{1}{2}$			
B. $g'(x) = -2x^2; g'(-2) = -8$			

C. $g'(x) = -2$; $g'(-2) = -2$

D. $g'(x) = \frac{2}{x^2}$; $g'(-2) = \frac{1}{2}$



Score: 0/2

Comments:

6.

Calcule la derivada de la función. Entonces, encuentre la derivada en el valor indicado.

$$f(x) = \frac{8}{x}; f'(-1)$$

$$\frac{8}{x}$$

Student Response	Value	Correct Answer	Feedback
A. $f'(x) = 8$; $f'(-1) = 8$			
B. $f'(x) = -8x^2$; $f'(-1) = -8$			
C. $f'(x) = \frac{8}{x^2}$; $f'(-1) = 8$			
D. $f'(x) = -\frac{8}{x^2}$; $f'(-1) = -8$			



Score: 0/2

Comments:

7.

Calcule la derivada de la función. Entonces, encuentre la derivada en el valor indicado.

$$g(x) = 3x^2 - 4x; g'(3)$$

Student Response	Value	Correct Answer	Feedback
A. $g'(x) = 6x$			



- 4; $g'(3)$ = 14
B. $g'(x) =$ $2x - 4$; g $'(3) = 2$
C. $g'(x) = 3x$ $- 4$; $g'(3)$ = 5
D. $g'(x) =$ $6x$; $g'(3)$ = 18

Score: 0/2

Comments:

8.**Encuentre la ecuación de la tangente en el punto de la gráfica de la función.**

$$s = h(t) = t^3 - 9t + 5, (t, s) = (3, 5)$$

Student Response	Value	Correct Answer	Feedback
A. $s = 18t -$ 49		<input checked="" type="checkbox"/>	
B. $s = 23t -$ 49			
C. $s = 5$			
D. $s = 18t +$ 5			

Score: 0/2

Comments:

9.**Encuentre la ecuación de la tangente en el punto de la gráfica de la función.**

$$w = g(z) = z^2 - 4, (z, w) = (4, 12)$$

Student Response	Value	Correct Answer	Feedback
A. $w = 8z -$ 20		<input checked="" type="checkbox"/>	
B. $w = 4z -$ 20			
C. $w = 8z -$ 36			
D. $w = 8z -$ 40			

Score: 0/2

Comments:

10.**Encuentre la ecuación de la tangente en el punto de la gráfica de la función.**

$$y = f(x) = \frac{x^3}{4}, (x, y) = (6, 54)$$

$$\frac{x^3}{4}$$

Student Response	Value	Correct Answer	Feedback
A. $y = 27x - 108$		<input checked="" type="checkbox"/>	
B. $y = 9x - 108$			
C. $y = 108x + 27$			
D. $y = 9x + 108$			

Score: 0/2

Comments:

11.**Encuentre y' .**

$$y = \left(\frac{1}{x} + 6\right) \left(x - \frac{1}{x} + 6\right)$$

$$\frac{1}{x^3}$$

Student Response	Value	Correct Answer	Feedback
A. $-\frac{2}{x^3} - 6$			
B. $-\frac{1}{x^3} - 6$			
C. $\frac{1}{x^3} + 6$			
D. $\frac{2}{x^3} + 6$		<input checked="" type="checkbox"/>	

Score: 0/2

Comments:

12.**Encuentre y '.**

$$y = (5x - 4)(2x^3 - x^2 + 1)$$

Student Response	Value	Correct Answer	Feedback
A. $40x^3 - 13x^2 + 39x + 5$			
B. $30x^3 + 39x^2 - 13x + 5$			
C. $10x^3 + 13x^2 - 39x + 5$			
D. $40x^3 - 39x^2 + 8x + 5$		<input checked="" type="checkbox"/>	

Score: 0/2

Comments:

13.**Encuentre $D_x y$.**

$$y = (6x - 4)(6x + 1)$$

Student Response	Value	Correct Answer	Feedback
A. $72x - 9$			
B. $36x - 18$			
C. $72x - 30$			
D. $72x - 18$		<input checked="" type="checkbox"/>	

Score: 0/2

Comments:

14.**Encuentre $D_x y$.**

$$y = (2x^3 + 5)(4x^7 - 8)$$

Student Response	Value	Correct Answer	Feedback
A. $80x^9 +$		<input checked="" type="checkbox"/>	

$140x^6 - 48x^2$
B. $8x^9 + 140x^6 - 48x^2$
C. $80x^9 + 140x^6 - 48x$
D. $8x^9 + 140x^6 - 48x$

Score: 0/2

Comments:

15.**Encuentre $D_x y$.**

$$y = \frac{\pi}{7x^2 - 8}$$

$$\frac{14\pi x}{(7x^2 - 8)^2}$$

Student Response	Value	Correct Answer	Feedback
A. $\frac{14\pi x}{7x^2 - 8}$			
B. $\frac{8\pi - 14\pi x}{(7x^2 - 8)^2}$			
C. $-\frac{14\pi x}{(7x^2 - 8)^2}$		<input checked="" type="checkbox"/>	
D. $\frac{7\pi x^2 - 14\pi x - 8\pi}{(7x^2 - 8)^2}$			

Score: 0/2

Comments:

16.**Encuentre la derivada de la función.**

$$y = \frac{x^2 - 3x + 2}{x^7 - 2}$$

$$\frac{x^2 - 3x + 2}{x^7 - 2}$$

Student Response	Value	Correct Answer	Feedback
A. $y' = \frac{-5x^8 + 18x^7 - 14x^6 - 3x + 6}{(x^7 - 2)^2}$			
B. $y' = \frac{-5x^8 + 18x^7 - 14x^6 - 4x + 6}{(x^7 - 2)^2}$		<input checked="" type="checkbox"/>	
C. $y' = \frac{-5x^8 + 19x^7 - 14x^6 - 4x + 6}{(x^7 - 2)^2}$			
D. $y' = \frac{-5x^8 + 18x^7 - 13x^6 - 4x + 6}{(x^7 - 2)^2}$			

Score: 0/2

Comments:

17.**Encuentre $D_x y$.**

$$y = \frac{x}{6x - 4}$$

$$\frac{4}{6x - 4}$$

Student Response	Value	Correct Answer	Feedback
A. $-\frac{4}{(6x - 4)^2}$		<input checked="" type="checkbox"/>	
B. $\frac{12x - 4}{(6x - 4)^2}$			
C. $-\frac{4x}{(6x - 4)^2}$			
D. $-\frac{4}{6x - 4}$			

Score: 0/2

Comments:

18.

Encuentre la ecuación de la recta tangente a la ecuación en el punto donde el valor de x se indica.

$$y = \frac{6x}{x^2 + 1}; x = 1$$

$$\frac{6x}{x^2 + 1}$$

Student Response	Value	Correct Answer	Feedback
A. $y = 0$			
B. $y = x + 3$			
C. $y = 3x$			
D. $y = 3$		<input checked="" type="checkbox"/>	

Score: 0/2

Comments:

19.

Find $D_x y$.

$$y = \frac{1}{6}(9x + 9)^3$$

$$\frac{9}{2}$$

Student Response	Value	Correct Answer	Feedback
A. $\frac{9}{2}(9x + 9)^2$		<input checked="" type="checkbox"/>	
B. $\frac{9}{2}x(9x + 9)^2$			
C. $\frac{3}{2}(9x + 9)^2$			
D. $\frac{1}{2}(9x + 9)^2$			

Score: 0/2

Comments:

20.

Find $D_x y$.

$$y = (4x^5 - 4x^4 + 7)^{300}$$

Student Response	Value	Correct Answer	Feedback
A. $300(4x^5 - 4x^4 + 7)^{299}$			
B. $300(4x^5 - 4x^4 + 7)^{299}(5x^4 - 4x^3)$			
C. $300(4x^5 - 4x^4 + 7)^{299}(20x^4 - 16x^3)$		<input checked="" type="checkbox"/>	
D. $300(20x^4 - 16x^3)^{299}$			

Score: 0/2

Comments:

Done

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