

**View Attempt 0 of 1**Title: **MATE 3013 Parcial 2**

Started: July 15, 2010 4:55 PM

Submitted: July 15, 2010 4:56 PM

Time spent: 00:00:56

Comments:

**Total score: 0/40 = 0%** | Total score adjusted by 0.0 | Maximum possible score: 40**Done****1.****Encuentre la derivada.**

$$y = 13x^{-2} + 8x^3 - 6x$$

Student Response	Value	Correct Answer	Feedback
A. $-26x^{-1} + 24x^2 - 6$			
B. $-26x^{-3} + 24x^2 - 6$		<input checked="" type="checkbox"/>	
C. $-26x^{-1} + 24x^2$			
D. $-26x^{-3} + 24x^2$			

Score: 0/2

Comments:

**2.****Encuentre la derivada.**

$$s = 4t^2 + 7t - 4$$

Student Response	Value	Correct Answer	Feedback
A. $4t + 7$			
B. $8t + 7$		<input checked="" type="checkbox"/>	
C. $4t^2 + 7$			
D. $8t^2 + 7$			

Score: 0/2

Comments:

3.

**Encuentre la derivada.**

$$y = 8 - 7x^3$$

Student Response	Value	Correct Answer	Feedback
A. $-14x^2$			
B. $-21x$			
C. $-21x^2$		<input checked="" type="checkbox"/>	
D. $8 - 21x^2$			

Score: 0/2

Comments:

4.

**Encuentre  $D_x y$ .**

$$y = \frac{1}{2}x^{10} - \frac{1}{3}x^3$$

$$\frac{1}{3}$$

Student Response	Value	Correct Answer	Feedback
A. $\frac{1}{2}x^9 - \frac{1}{3}x^2$			
B. $5x^{11} - x^4$			
C. $5x^{10} - x^3$			
D. $5x^9 - x^2$		<input checked="" type="checkbox"/>	

Score: 0/2

Comments:

5.

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

$$f(x) = x^2 + 7x - 2; f'(0)$$

Student Response	Value	Correct Answer	Feedback
A. $f'(x) = x + 7; f'(0) = 7$			

B. $f'(x) = 2x$ ; $f'(0) = 0$	
C. $f'(x) = 2x + 7$ ; $f'(0) = 7$	<input checked="" type="checkbox"/>
D. $f'(x) = 2x - 2$ ; $f'(0) = -2$	

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. $f'(x) = \frac{8}{x^2}$ ; $f'(-1) = 8$			
B. $f'(x) = -8x^2$ ; $f'(-1) = -8$			
C. $f'(x) = -\frac{8}{x^2}$ ; $f'(-1) = -8$		<input checked="" type="checkbox"/>	
D. $f'(x) = 8$ ; $f'(-1) = 8$			

Score: 0/2

Comments:

**7.****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. $g'(x) = -2$ ; $g'(-2) = -2$			
C. $g'(x) = \frac{2}{x^2}$ ; $g'(-2) = \frac{1}{2}$		<input checked="" type="checkbox"/>	
D. $g'(x) = -2x^2$ ; $g'(-2) = -8$			

Score: 0/2

Comments:

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

$$y = f(x) = x - x^2, (x, y) = (-3, -12)$$

Student Response	Value	Correct Answer	Feedback
A. $y = 7x + 9$		<input checked="" type="checkbox"/>	
B. $y = -7x + 9$			
C. $y = -5x + 9$			
D. $y = -5x - 9$			

Score: 0/2

Comments:

**9.****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. $s = 18t + 5$	
B. $s = 18t - 49$	<input checked="" type="checkbox"/>
C. $s = 23t - 49$	
D. $s = 5$	

Score: 0/2

Comments:

**10.****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. $w = 8z - 40$			
B. $w = 8z - 36$			
C. $w = 8z - 20$	<input checked="" type="checkbox"/>		
D. $w = 4z - 20$			

Score: 0/2

Comments:

**11.****Encuentre  $y'$ .**

$$y = (3x - 6)(6x + 1)$$

Student Response	Value	Correct Answer	Feedback
A. $18x - 33$			
B. $36x - 39$			
C. $36x - 33$	<input checked="" type="checkbox"/>		
D. $36x - 16.5$			

Score: 0/2

Comments:

**12.****Encuentre  $y'$ .**

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

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

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

Score: 0/2

Comments:

**13.****Encuentre y '.**

$$y = \left(\frac{1}{x^2} + 7\right) \left(x^2 - \frac{1}{x^2} + 7\right)$$

$$\left(\frac{1}{x^2} + 7\right)$$

Student Response	Value	Correct Answer	Feedback
A. $\frac{4}{x^5} - 14x$			
B. $\frac{4}{x^5} + 14x$		<input checked="" type="checkbox"/>	
C. $-\frac{1}{x^5} + 14x$			
D. $\frac{4}{x^3} + 14x$			

Score: 0/2

Comments:

14.

**Encuentre y '.**

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

Student Response	Value	Correct Answer	Feedback
A. $12x^9 + 42x^6 - 72x^2$			
B. $60x^9 + 42x^6 - 72x$			
C. $12x^9 + 42x^6 - 72x$			
D. $60x^9 + 42x^6 - 72x^2$		<input checked="" type="checkbox"/>	

Score: 0/2

Comments:

15.

**Encuentre  $D_x y$ .**

$$y = \frac{6x + 9}{9x - 8}$$

$$\frac{129}{(9x - 8)^2}$$

Student Response	Value	Correct Answer	Feedback
A. $\frac{33}{9x - 8}$			
B. $-\frac{129}{(9x - 8)^2}$		<input checked="" type="checkbox"/>	
C. $-\frac{129x}{(9x - 8)^2}$			
D. $\frac{108x + 33}{(9x - 8)^2}$			

Score: 0/2

Comments:

16.

**Encuentre la derivada de la función.**

$$y = \frac{x^2 + 8x + 3}{\sqrt{x}}$$

$$\frac{3x^2 + 8x - 3}{2x^{3/2}}$$

Student Response	Value	Correct Answer	Feedback
A. $y' = \frac{3x^2 + 8x - 3}{2x^{3/2}}$		<input checked="" type="checkbox"/>	
B. $y' = \frac{3x^2 + 8x - 3}{x}$			
C. $y' = \frac{2x + 8}{2x^{3/2}}$			
D. $y' = \frac{2x + 8}{x}$			

Score: 0/2

Comments:

**17.**

**Encuentre  $D_x y$ .**

$$y = \frac{x - 3}{x + 3}$$

$$\frac{x - 3}{x + 3}$$

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

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.

$$y = \frac{2x^2 - 4}{-2x - 2}; x = 0$$

$$\frac{2x^2 - 4}{-2x - 2}$$

Student Response	Value	Correct Answer	Feedback
A. $y = 2x + 2$			
B. $y = 2x - 2$			
C. $y = -2x + 2$		<input checked="" type="checkbox"/>	
D. $y = -2x - 2$			

Score: 0/2

Comments:

**19.**Find  $D_x y$ .

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

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

Score: 0/2

Comments:

20.

Find  $D_x y$ .

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

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

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

Score: 0/2

Comments:

Done

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