**Quiz Chapter 3**

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**JavaScript phải có khả năng tiếp tục !**

Question 1

Điểm : 1

Find all the critical numbers of the function.   
  
[g(x)=2\cos 
x+\sin^2 x](http://cms.fpt.edu.vn/elearning/filter/tex/displaytex.php?g(x)=2\cos+x+\sin%5e2+x)  
Select the correct answer.

Chọn một câu trả lời

|  |  |  |
| --- | --- | --- |
|  | a. [0, \pi/2](http://cms.fpt.edu.vn/elearning/filter/tex/displaytex.php?0,+\pi/2) |  |
|  | b. [\pi/2](http://cms.fpt.edu.vn/elearning/filter/tex/displaytex.php?\pi/2) |  |
|  | c. [0, \pi, -\pi](http://cms.fpt.edu.vn/elearning/filter/tex/displaytex.php?0,+\pi,+-\pi) |  |
|  | d. [n\pi](http://cms.fpt.edu.vn/elearning/filter/tex/displaytex.php?n\pi), n=integer |  |
|  | e. [(2n+1)\pi/2](http://cms.fpt.edu.vn/elearning/filter/tex/displaytex.php?(2n+1)\pi/2), n=integer |  |

Question 2

Điểm : 1

If an arrow is shot upward on the moon with a velocity of 55 m/s, its height in meters after *t* seconds is given by [h=55t-0.04t^2](http://cms.fpt.edu.vn/elearning/filter/tex/displaytex.php?h=55t-0.04t%5e2). Find the average velocity over the interval [1, 1.04].   
  
Select the correct answer

Chọn một câu trả lời

|  |  |  |
| --- | --- | --- |
|  | a. -54.0226 |  |
|  | b. 54.0012 |  |
|  | c. -55.2102 |  |
|  | d. 54.9184 |  |
|  | e. 55.0123 |  |
|  | f. 55.6781 |  |

Question 3

Điểm : 1

Find the most general antiderivative of the function.   
  
[f(x)=x^{1/5}-4x^{1/3}](http://cms.fpt.edu.vn/elearning/filter/tex/displaytex.php?f(x)=x%5e%7b1/5%7d-4x%5e%7b1/3%7d)

Chọn một câu trả lời

|  |  |  |
| --- | --- | --- |
|  | a. [(5/6)x^{6/5}-(3/4)x^{4/3}+C](http://cms.fpt.edu.vn/elearning/filter/tex/displaytex.php?(5/6)x%5e%7b6/5%7d-(3/4)x%5e%7b4/3%7d+C) |  |
|  | b. [(6/5)x^{6/5}-3x^{4/3}](http://cms.fpt.edu.vn/elearning/filter/tex/displaytex.php?(6/5)x%5e%7b6/5%7d-3x%5e%7b4/3%7d) |  |
|  | c. [(5/6)x^{6/5}-3x^{4/3}](http://cms.fpt.edu.vn/elearning/filter/tex/displaytex.php?(5/6)x%5e%7b6/5%7d-3x%5e%7b4/3%7d) |  |
|  | d. [(6/5)x^{6/5}-9x^{4/3}+C](http://cms.fpt.edu.vn/elearning/filter/tex/displaytex.php?(6/5)x%5e%7b6/5%7d-9x%5e%7b4/3%7d+C) |  |
|  | e. [(5/6)x^{6/5}-3x^{4/3}+C](http://cms.fpt.edu.vn/elearning/filter/tex/displaytex.php?(5/6)x%5e%7b6/5%7d-3x%5e%7b4/3%7d+C) |  |

Question 4

Điểm: 1

A particle is moving with the given data. Find the position of the particle.  
  
V (t) = sin (t)-cos (t), s (0) =0  
Choose the best answer.

Chọn một câu trả lời

|  |  |  |
| --- | --- | --- |
|  | a. 1-cos(t)+sin(t) |  |
|  | b. -cos(t)-sin(t) |  |
|  | c. 17-cos(t)-sin(t) |  |
|  | d. 1-cos(t)-sin(t) |  |
|  | e. 1+cos(t)-sin(t) |  |

Question 5

Điểm : 1

Find the maximum or minimum point(s) of the function.  
  
[F(x)=(1-x^2)^2+6x^2](http://cms.fpt.edu.vn/elearning/filter/tex/displaytex.php?F(x)=(1-x%5e2)%5e2+6x%5e2)  
  
Select the correct answer.

Chọn một câu trả lời

|  |  |  |
| --- | --- | --- |
|  | a. (-8.6, 6) |  |
|  | b. (16, 1) |  |
|  | c. (0, 1) |  |
|  | d. (-8, 2) |  |
|  | e. (8, 0) |  |

Question 6

Điểm : 1

Find the absolute minimum value(s) of mc024-1.jpgon the interval [0, 6].    
Choose the correct answer.

Chọn một câu trả lời

|  |  |  |
| --- | --- | --- |
|  | a. -38 |  |
|  | b. -40 |  |
|  | c. -41 |  |
|  | d. -42 |  |
|  | e. -39 |  |

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