**Quiz Chapter 11**

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

Question 1

Điểm : 1

Find the limit.

[\lim_{(x,y)\to (1,1)} \ln |\frac{x+y}{xy}|](http://cms.fpt.edu.vn/elearning/filter/tex/displaytex.php?%5Clim_%7B%28x%2Cy%29%5Cto+%281%2C1%29%7D+%5Cln+%7C%5Cfrac%7Bx%2By%7D%7Bxy%7D%7C)

Chọn một câu trả lời

|  |  |  |
| --- | --- | --- |
|  | a. -ln 2 |  |
|  | b. 0 |  |
|  | c. No limit |  |
|  | d. ln 2 |  |

Question 2

Điểm : 1

Use the Chain Rule to find [\frac{\partial z}{\partial s}](http://cms.fpt.edu.vn/elearning/filter/tex/displaytex.php?%5Cfrac%7B%5Cpartial+z%7D%7B%5Cpartial+s%7D)  
  
[z=e^r\cos\theta, \, r=10st, \, \theta=\sqrt{s^2+t^2}](http://cms.fpt.edu.vn/elearning/filter/tex/displaytex.php?z%3De%5Er%5Ccos%5Ctheta%2C+%5C%2C+r%3D10st%2C+%5C%2C+%5Ctheta%3D%5Csqrt%7Bs%5E2%2Bt%5E2%7D).   
  
  
  
Select the correct answer.

Chọn một câu trả lời

|  |  |  |
| --- | --- | --- |
|  | a. [\frac{\partial z}{\partial s}=e^t\big(t\cos\theta-\frac{s\sin\theta}{\sqrt{s^2+t^2}}\big)](http://cms.fpt.edu.vn/elearning/filter/tex/displaytex.php?%5Cfrac%7B%5Cpartial+z%7D%7B%5Cpartial+s%7D%3De%5Et%5Cbig%28t%5Ccos%5Ctheta-%5Cfrac%7Bs%5Csin%5Ctheta%7D%7B%5Csqrt%7Bs%5E2%2Bt%5E2%7D%7D%5Cbig%29) |  |
|  | b. [\frac{\partial z}{\partial s}=e^r\big(\cos\theta-\frac{s\sin\theta}{\sqrt{s^2+t^2}}\big)](http://cms.fpt.edu.vn/elearning/filter/tex/displaytex.php?%5Cfrac%7B%5Cpartial+z%7D%7B%5Cpartial+s%7D%3De%5Er%5Cbig%28%5Ccos%5Ctheta-%5Cfrac%7Bs%5Csin%5Ctheta%7D%7B%5Csqrt%7Bs%5E2%2Bt%5E2%7D%7D%5Cbig%29) |  |
|  | c. [\frac{\partial z}{\partial s}=e^r\big(10t\cos\theta+\frac{s\sin\theta}{\sqrt{s^2+t^2}}\big)](http://cms.fpt.edu.vn/elearning/filter/tex/displaytex.php?%5Cfrac%7B%5Cpartial+z%7D%7B%5Cpartial+s%7D%3De%5Er%5Cbig%2810t%5Ccos%5Ctheta%2B%5Cfrac%7Bs%5Csin%5Ctheta%7D%7B%5Csqrt%7Bs%5E2%2Bt%5E2%7D%7D%5Cbig%29) |  |
|  | d. [\frac{\partial z}{\partial s}=e^r\big(10t\cos\theta-\frac{s\sin\theta}{\sqrt{s^2+t^2}}\big)](http://cms.fpt.edu.vn/elearning/filter/tex/displaytex.php?%5Cfrac%7B%5Cpartial+z%7D%7B%5Cpartial+s%7D%3De%5Er%5Cbig%2810t%5Ccos%5Ctheta-%5Cfrac%7Bs%5Csin%5Ctheta%7D%7B%5Csqrt%7Bs%5E2%2Bt%5E2%7D%7D%5Cbig%29) |  |

Question 3

Điểm : 1

Evaluate [\frac{\partial w}{\partial t}](http://cms.fpt.edu.vn/elearning/filter/tex/displaytex.php?%5Cfrac%7B%5Cpartial+w%7D%7B%5Cpartial+t%7D)at t = 2 for the function w(x, y, z) = exyz2; x = t, y = t, z = 1/t.

Chọn một câu trả lời

|  |  |  |
| --- | --- | --- |
|  | a. 1e |  |
|  | b. - 1e |  |
|  | c. 1 |  |
|  | d. 0 |  |

Question 4

Điểm : 1

Find the limit.

[\lim_{(x,y)\to (0,0)}\frac{7x^2+9y^2+6}{7x^2-9y^2+7}](http://cms.fpt.edu.vn/elearning/filter/tex/displaytex.php?%5Clim_%7B%28x%2Cy%29%5Cto+%280%2C0%29%7D%5Cfrac%7B7x%5E2%2B9y%5E2%2B6%7D%7B7x%5E2-9y%5E2%2B7%7D)

Chọn một câu trả lời

|  |  |  |
| --- | --- | --- |
|  | a. 1 |  |
|  | b. -1 |  |
|  | c. No limit |  |
|  | d. 6/7 |  |

Question 5

Điểm : 1

Find the limit [\lim_{(x,y)\to (9,-5)} x^5+8x^3y-2xy^2](http://cms.fpt.edu.vn/elearning/filter/tex/displaytex.php?%5Clim_%7B%28x%2Cy%29%5Cto+%289%2C-5%29%7D+x%5E5%2B8x%5E3y-2xy%5E2)

Chọn một câu trả lời

|  |  |  |
| --- | --- | --- |
|  | a. 29439 |  |
|  | b. 14550 |  |
|  | c. 26509 |  |
|  | d. 47077 |  |

Question 6

Điểm : 1

At what point is the following function a local maximum?   
  
[f(x,y)=3-10x+12y-5x^2-6y^2](http://cms.fpt.edu.vn/elearning/filter/tex/displaytex.php?f%28x%2Cy%29%3D3-10x%2B12y-5x%5E2-6y%5E2)  
  
  
Select the correct answer.

Chọn một câu trả lời

|  |  |  |
| --- | --- | --- |
|  | a. (1, 1) |  |
|  | b. (3, 1) |  |
|  | c. (-1, 1) |  |
|  | d. (0, 1) |  |
|  | e. (1, -1) |  |

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