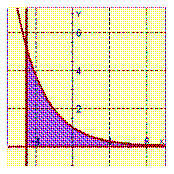
**Quiz Chapter 7**

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

Question 1

Điểm : 1

The region [\{(x,y)|x\geq -5,\, 0\leq y\leq e^{-x/3}\}](http://cms.fpt.edu.vn/elearning/filter/tex/displaytex.php?\%7b(x,y)|x\geq+-5,\,+0\leq+y\leq+e%5e%7b-x/3%7d\%7d)is represented below.  
  
Find the area of this region.   
  
  
  
Select the correct answer.

Chọn một câu trả lời

|  |  |  |
| --- | --- | --- |
|  | a. 15.87 |  |
|  | b. 15.89 |  |
|  | c. 16.08 |  |
|  | d. 15.88 |  |

Question 2

Điểm : 1

|  |
| --- |
| Find the number b such that the line y=b divides the region bounded by the curves [y=x^2](http://cms.fpt.edu.vn/elearning/filter/tex/displaytex.php?y=x%5e2)and y=4 into two regions with equal area. |
|  |

Chọn một câu trả lời

|  |  |  |
| --- | --- | --- |
|  | a. [6^{4/5}](http://cms.fpt.edu.vn/elearning/filter/tex/displaytex.php?6%5e%7b4/5%7d) |  |
|  | b. [5^{3/4}](http://cms.fpt.edu.vn/elearning/filter/tex/displaytex.php?5%5e%7b3/4%7d) |  |
|  | c. [4^{2/3}](http://cms.fpt.edu.vn/elearning/filter/tex/displaytex.php?4%5e%7b2/3%7d) |  |
|  | d. [7^{5/6}](http://cms.fpt.edu.vn/elearning/filter/tex/displaytex.php?7%5e%7b5/6%7d) |  |

Question 3

Điểm : 1

Solve the initial-value problem.

[\frac{dy}{dx}=5x^4y,\, y(0)=2](http://cms.fpt.edu.vn/elearning/filter/tex/displaytex.php?\frac%7bdy%7d%7bdx%7d=5x%5e4y,\,+y(0)=2)

Chọn một câu trả lời

|  |  |  |
| --- | --- | --- |
|  | a. [y=2e^{x^4}](http://cms.fpt.edu.vn/elearning/filter/tex/displaytex.php?y=2e%5e%7bx%5e4%7d) |  |
|  | b. [y=2e^{x^5}](http://cms.fpt.edu.vn/elearning/filter/tex/displaytex.php?y=2e%5e%7bx%5e5%7d) |  |
|  | c. [y=e^{x^5}+C](http://cms.fpt.edu.vn/elearning/filter/tex/displaytex.php?y=e%5e%7bx%5e5%7d+C) |  |
|  | d. [y=3e^{x^4}+C](http://cms.fpt.edu.vn/elearning/filter/tex/displaytex.php?y=3e%5e%7bx%5e4%7d+C) |  |

Question 4

Điểm : 1

Find the area of the region bounded by the curves [x=4-y^2](http://cms.fpt.edu.vn/elearning/filter/tex/displaytex.php?x=4-y%5e2)and [x=y^2-2](http://cms.fpt.edu.vn/elearning/filter/tex/displaytex.php?x=y%5e2-2)

Chọn một câu trả lời

|  |  |  |
| --- | --- | --- |
|  | a. 11.47 |  |
|  | b. 11.86 |  |
|  | c. 13.86 |  |
|  | d. 12.53 |  |

Question 5

Điểm : 1

Solve the differential equation.

[\frac{dx}{dt}=1-t+x-tx](http://cms.fpt.edu.vn/elearning/filter/tex/displaytex.php?\frac%7bdx%7d%7bdt%7d=1-t+x-tx)

Chọn một câu trả lời

|  |  |  |
| --- | --- | --- |
|  | a. [x(t)=-1+Ce^{t-t^2/2}](http://cms.fpt.edu.vn/elearning/filter/tex/displaytex.php?x(t)=-1+Ce%5e%7bt-t%5e2/2%7d) |  |
|  | b. [x(t)=-1+Cte^{t}](http://cms.fpt.edu.vn/elearning/filter/tex/displaytex.php?x(t)=-1+Cte%5e%7bt%7d) |  |
|  | c. [x(t)=C-Cte^{t+t^2/2}](http://cms.fpt.edu.vn/elearning/filter/tex/displaytex.php?x(t)=C-Cte%5e%7bt+t%5e2/2%7d) |  |
|  | d. [x(t)=C+Ce^{t+t^2/2}](http://cms.fpt.edu.vn/elearning/filter/tex/displaytex.php?x(t)=C+Ce%5e%7bt+t%5e2/2%7d) |  |

Question 6

Điểm : 1

Find the area of the region bounded by the curves.  
  
[x=2y^2,\, x=4+y^2](http://cms.fpt.edu.vn/elearning/filter/tex/displaytex.php?x=2y%5e2,\,+x=4+y%5e2)

Chọn một câu trả lời

|  |  |  |
| --- | --- | --- |
|  | a. 32/3 |  |
|  | b. 33/4 |  |
|  | c. 32/5 |  |
|  | d. 31/4 |  |

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