**Quiz Chapter 4**

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

Question 1

Điểm : 1

Find the indefinite integral.

[\int x(5+10x^4)\, 
dx](http://cms.fpt.edu.vn/elearning/filter/tex/displaytex.php?\int+x(5+10x%5e4)\,+dx)

Chọn một câu trả lời

|  |  |  |
| --- | --- | --- |
|  | a. None of these |  |
|  | b. [(5/2)x^2+(10/6)x^6+C](http://cms.fpt.edu.vn/elearning/filter/tex/displaytex.php?(5/2)x%5e2+(10/6)x%5e6+C) |  |
|  | c. [(5/2)x^2-(10/6)x^6+C](http://cms.fpt.edu.vn/elearning/filter/tex/displaytex.php?(5/2)x%5e2-(10/6)x%5e6+C) |  |
|  | d. [(5/2)x^2+(10/6)x^6](http://cms.fpt.edu.vn/elearning/filter/tex/displaytex.php?(5/2)x%5e2+(10/6)x%5e6) |  |

Question 2

Điểm : 1

If [F(x)=\int_1^xf(t)\, dt](http://cms.fpt.edu.vn/elearning/filter/tex/displaytex.php?F(x)=\int_1%5exf(t)\,+dt), where [f(t)=\int_1^{t^2}\frac{\sqrt{10+u^4}}{u}du](http://cms.fpt.edu.vn/elearning/filter/tex/displaytex.php?f(t)=\int_1%5e%7bt%5e2%7d\frac%7b\sqrt%7b10+u%5e4%7d%7d%7bu%7ddu), find F’’(2).

Chọn một câu trả lời

|  |  |  |
| --- | --- | --- |
|  | a. [\sqrt{266}](http://cms.fpt.edu.vn/elearning/filter/tex/displaytex.php?\sqrt%7b266%7d) |  |
|  | b. [\sqrt{268}](http://cms.fpt.edu.vn/elearning/filter/tex/displaytex.php?\sqrt%7b268%7d) |  |
|  | c. [\sqrt{269}](http://cms.fpt.edu.vn/elearning/filter/tex/displaytex.php?\sqrt%7b269%7d) |  |
|  | d. [\sqrt{267}](http://cms.fpt.edu.vn/elearning/filter/tex/displaytex.php?\sqrt%7b267%7d) |  |

Question 3

Điểm : 1

Evaluate the Riemann sum for, with four subintervals, taking the sample points to be right endpoints. [f(r)=2-r^2,\, 0\leq r\leq 2](http://cms.fpt.edu.vn/elearning/filter/tex/displaytex.php?f(r)=2-r%5e2,\,+0\leq+r\leq+2)  
  
Select the correct answer.

Chọn một câu trả lời

|  |  |  |
| --- | --- | --- |
|  | a. 1.5 |  |
|  | b. 2.5 |  |
|  | c. 0.25 |  |
|  | d. 0.36 |  |

Question 4

Điểm : 1

An animal population is increasing at a rate of 13+51t per year (where *t* is measured in years). By how much does the animal population increase between the fourth and tenth years?  
  
Select the correct answer.

Chọn một câu trả lời

|  |  |  |
| --- | --- | --- |
|  | a. 2,155 |  |
|  | b. 2,220 |  |
|  | c. 4,362 |  |
|  | d. 2,064 |  |
|  | e. 2,100 |  |

Question 5

Điểm : 1

Determine a region whose area is equal to

[\lim_{n\to 
\infty}\sum_{i=1}^n\frac{\pi}{3n}\tan\frac{i\pi}{3n}](http://cms.fpt.edu.vn/elearning/filter/tex/displaytex.php?\lim_%7bn\to+\infty%7d\sum_%7bi=1%7d%5en\frac%7b\pi%7d%7b3n%7d\tan\frac%7bi\pi%7d%7b3n%7d)

.  
  
Select the correct answer.

Chọn một câu trả lời

|  |  |  |
| --- | --- | --- |
|  | a. [y=\tan  x,\, 0\leq x\leq \pi/8](http://cms.fpt.edu.vn/elearning/filter/tex/displaytex.php?y=\tan+x,\,+0\leq+x\leq+\pi/8) |  |
|  | b. [y=\tan  x,\, 0\leq x\leq \pi/3](http://cms.fpt.edu.vn/elearning/filter/tex/displaytex.php?y=\tan+x,\,+0\leq+x\leq+\pi/3) |  |
|  | c. [y=\tan  x,\, 0\leq x\leq \pi/5](http://cms.fpt.edu.vn/elearning/filter/tex/displaytex.php?y=\tan+x,\,+0\leq+x\leq+\pi/5) |  |
|  | d. [y=\tan  x,\, 0\leq x\leq \pi/13](http://cms.fpt.edu.vn/elearning/filter/tex/displaytex.php?y=\tan+x,\,+0\leq+x\leq+\pi/13) |  |

Question 6

Điểm : 1

Evaluate the indefinite integral

[\int\frac{4+6x}{\sqrt{6+4x+3x^2}}dx](http://cms.fpt.edu.vn/elearning/filter/tex/displaytex.php?\int\frac%7b4+6x%7d%7b\sqrt%7b6+4x+3x%5e2%7d%7ddx)

Chọn một câu trả lời

|  |  |  |
| --- | --- | --- |
|  | a. [(1/2)\sqrt{6+4x+3x^2}+C](http://cms.fpt.edu.vn/elearning/filter/tex/displaytex.php?(1/2)\sqrt%7b6+4x+3x%5e2%7d+C) |  |
|  | b. [2\sqrt{6+4x+3x^2}+C](http://cms.fpt.edu.vn/elearning/filter/tex/displaytex.php?2\sqrt%7b6+4x+3x%5e2%7d+C) |  |
|  | c. [\sqrt{6+4x+3x^2}+C](http://cms.fpt.edu.vn/elearning/filter/tex/displaytex.php?\sqrt%7b6+4x+3x%5e2%7d+C) |  |
|  | d. [2\sqrt{6+4x+3x^2}](http://cms.fpt.edu.vn/elearning/filter/tex/displaytex.php?2\sqrt%7b6+4x+3x%5e2%7d) |  |

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