

Math 102 - 7

Quiz # 5 **A**

Sem 062

Name: \_\_\_\_\_ I.D.#: \_\_\_\_\_ Serial #: \_\_\_\_\_

Q1  $\sqrt{x} \sin \sqrt{x} dx$

Q2 Set up the integral (do not evaluate) to find the volume of the solid generated if the region bounded by the curves  $y = 1 - x^2$ ,  $x$  axis is rotating about  $x = 1$ , by using cylindrical shells method.

Q3 Find the volume of the solid generated if the region bounded by the curves  $y = \ln x$ ,  $x$  axis from  $x = 1$  to  $x = e^2$  is rotating about  $y$  axis

Math 102 - 7

Quiz # 5 **B**

Sem 062

Name: \_\_\_\_\_ I.D.#: \_\_\_\_\_ Serial #: \_\_\_\_\_

Q1  $\sqrt{x} \cos \sqrt{x} dx$

Q2 Set up the integral (do not evaluate) to find the volume of the solid generated if the region bounded by the curves  $y = x^2 - 1$ ,  $x$  axis is rotating about  $x = 2$ , by using cylindrical shells method.

Q3 Find the volume of the solid generated if the region bounded by the curves  $y = \ln x$ ,  $x$  axis from  $x = 1$  to  $x = e^3$  is rotating about  $y$  axis

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Quiz # 5 **A**

Sem 062

Name: \_\_\_\_\_ I.D.#: \_\_\_\_\_ Serial #: \_\_\_\_\_

Q1  $e^{2x} \sin x dx$

Q2 Set up the integral (do not evaluate) to find the volume of the solid generated if the region bounded by the curves  $y = 2 - x^2$ ,  $x$  axis is rotating about  $x = 3$ , by using cylindrical shells method.

Q3 Find the volume of the solid generated if the region bounded by the curves  $y = \sin x$ ,  $x$  axis from  $x = 0$  to  $x = \pi$  is rotating about  $y$  axis

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Quiz # 5 **B**

Sem 062

Name: \_\_\_\_\_ I.D.#: \_\_\_\_\_ Serial #: \_\_\_\_\_

Q1  $\sqrt{x} \cosh \sqrt{x} dx$

Q2 Set up the integral (do not evaluate) to find the volume of the solid generated if the region bounded by the curves  $y = x^2 - 2$ ,  $x$  axis is rotating about  $x = 2$ , by using cylindrical shells method.

Q3 Find the volume of the solid generated if the region bounded by the curves  $y = e^x$ ,  $x$  axis from  $x = 0$  to  $x = 2$  is rotating about  $y$  axis

Math 102 - 16

Quiz # 5 **A**

Sem 062

Name: \_\_\_\_\_ I.D.#: \_\_\_\_\_ Serial #: \_\_\_\_\_

Q1  $\sqrt{x} \sinh \sqrt{x} dx$

Q2 Set up the integral (do not evaluate) to find the volume of the solid generated if the region bounded by the curves  $y = 2 - x^2$ ,  $x$  axis is rotating about  $x = 2$ , by using cylindrical shells method.

Q3 Find the volume of the solid generated if the region bounded by the curves  $y = e^x$ ,  $x$  axis from  $x = 0$  to  $x = 3$  is rotating about  $y$  axis

Name: \_\_\_\_\_ I.D.#: \_\_\_\_\_ Serial #: \_\_\_\_\_

Q1  $e^x \sin 3x \, dx$ 

Q2 Set up the integral (do not evaluate) to find the volume of the solid generated if the region bounded by the curves  $y = 4 - x^2$ ,  $x$  axis is rotating about  $x = 3$ , by using cylindrical shells method.

Q3 Find the volume of the solid generated if the region bounded by the curves  $y = \cos x$ ,  $x$  axis from  $x = 0$  to  $x = \frac{\pi}{2}$  is rotating about  $y$  axis