

Math 113 (Calculus II)
Test 1 Form A KEY

Multiple Choice. Fill in the answer to each problem on your scantron. Make sure your name, section and instructor is on your scantron.

1. Find $\int_4^9 \frac{\ln y}{\sqrt{y}} dy$

- a) $6 \ln 9 - 2 \ln 4 + 4$ b) $\frac{5}{2} \ln 9 - \ln 4 + 2$ c) $4 \ln 9 - 4 \ln 4 - 2$
 d) $6 \ln 9 - 4 \ln 4 - 4$ e) $\frac{3}{2} \ln 9 - \ln 4 - 2$ f) $4 \ln 9 - 2 \ln 4 - 4$
 g) None of the above

Solution: d)

2. Rotate the area between the curves

$$x = 0, \quad y = x^{10}, \quad y = 1$$

about $y = -1$. The volume is

- a) $\frac{1}{10}\pi$ b) $\frac{5}{10}\pi$ c) $\frac{6}{10}\pi$ d) $\frac{9}{10}\pi$
 e) π f) 3π g) None of the above.

Solution: d)

3. Rotate the area between $y = x$ and $y = x^2$ about $x = a$ ($a > 1$). For what value of a is the volume $\frac{25}{2}\pi$?

- a) 1 b) 2 c) 3 d) 4
 e) 5 f) 6 g) None of the above.

Solution: b)

4. Evaluate $\int_0^1 4\sqrt{15 - x^3} dx$ by interpreting it as an area.

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