

Make-up quiz 6

⚠ This is a preview of the published version of the quiz

Started: Jan 5 at 2:06pm

Quiz Instructions

Question 1

1 pts

Solve the initial-value problem, $(1 + \cos(x))y' = (1 + e^{-y}) \sin(x)$, $y(0) = 0$.

Question 2

1 pts

Find the length of the curve, $y = \frac{1}{6}(x^2 + 4)^{3/2}$, $0 \leq x \leq 3$.

Question 3**1 pts**

Find the area enclosed by the functions $f(x) = 5x - x^2$ and $g(x) = x$.

Question 4**1 pts**

Find the volume of the solid obtained by rotating about the x -axis the region under the curve $y = \sqrt{2x + 1}$ from 0 to 1.

Question 5**1 pts**

The arc of the parabola $y = x^2$ from $(0, 0)$ to $(1, 1)$ is rotated about the y -axis. Find the area of the resulting surface.

Not saved

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