

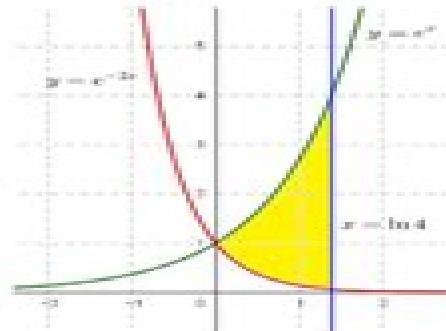
Calculus With Analytic Geometry II
Quiz #1-SOLUTIONS

1. (a) (35 points) Find the area of the region bounded by the curves of equations $y = e^x$, $y = e^{-2x}$, and $x = \ln 4$.

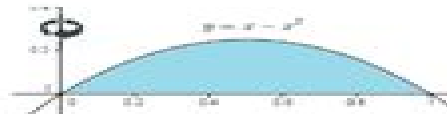
Solution.

$$A = \int_0^{\ln 4} (e^x - e^{-2x}) dx = e^x + \frac{1}{2}e^{-2x} \Big|_0^{\ln 4} = \left(4 + \frac{1}{32}\right) - \left(1 + \frac{1}{2}\right) = \boxed{\frac{81}{32}}.$$

- (b) (5 points) Use the grid below to sketch the region.



2. (40 points) Let R be the region bounded by $y = x - x^2$, and $y = 0$. Use the shell method to find the volume of the solid generated when R is rotated about the y axis.



Solution.

$$V = 2\pi \int_0^1 x(x - x^2) dx = 2\pi \int_0^1 (x^2 - x^3) dx = 2\pi \left(\frac{1}{3}x^3 - \frac{1}{4}x^4\right) \Big|_0^1 = \boxed{\frac{\pi}{6}}.$$

Calculus And Analytic Geometry Solutions

Minjie Lin



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