

Quiz# 2

Name:

ID #:

Section 7

Serial #:

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1. Set up the integral (do NOT evaluate!) that gives the area of the region, in the first quadrant, bounded on the left by the y -axis and by the curves of $y = \frac{1}{4}x^2$, $y = 3 - x$, and $y = \sqrt{x} + 1$.

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2. If the region, in the first quadrant, bounded by the curves of $y = \sec x$, $y = \tan x$, the line $x = 1$, and the y -axis is revolved about the line $y = 2$. Set up (do NOT evaluate!) the integral that gives the volume of the generated solid.

3. Evaluate $\int (4 - 10x^4) \sqrt{x^5 - 2x} dx$.

With My Best Wishes