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Quiz#2

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Name:

Serial No.:

1. Evaluate the **area** of the region enclosed by the curves $-2y^2=x$ and y-x=1. (Just set up the integration formula)

2. Find the value of $I = \int_{-9}^{-1} (x+5)^8 \cot(x+5) dx$.

3. The region bounded by the parabolas $y^2 = x$ and $y = x^2$ is rotating about an axis, find the **volume** of the resulted solid if the axis of rotation is

a.
$$x = -2$$
,

b.
$$y = -\pi$$
.

(Just set up the integration formula)

4. Evaluate $I = \int_1^e \frac{1}{x(1+\ln x^2)^3} dx$.