

Math 182 Honors Quiz 2 Version A

1. $\frac{d}{dx} \arcsin(2x)$

2. Find the area of the region bounded by the curves $y = 3 - x^2$ and $y = x + 1$.

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3. $\int_1^2 \sqrt{9 - x^2} dx$

4. Find the volume of the solid of revolution generated when the area bounded by $y = 2x - x^2$ and $y = 0$ is revolved around the x -axis.