

arcsec derivative

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Question #2250e - Socratic

$\frac{1}{2} \text{arcsec}^2(x) + C > I = \int (\text{arcsec}(x)) / (\sqrt{x^2 - 1}) dx$ Let $x = \sec\theta$. This implies that $dx = \sec\theta \tan\theta d\theta$. Also it means that $\theta = \text{arcsec}(x)$. Then: $I = \int \theta / (\sec\theta \sqrt{\sec^2\theta - 1}) (\sec\theta \tan\theta d\theta)$ Note that $\sec^2\theta - 1 = \tan^2\theta$: $I = \int \theta / (\sec\theta \tan\theta) (\sec\theta \tan\theta d\theta)$ $I = \int \theta d\theta$ $I = \frac{1}{2} \theta^2 + C$ $I = \frac{1}{2} \text{arcsec}^2(x) + C$

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"170 mL" Your strategy here will be to write a balanced chemical equation for this single replacement reaction use the molar volume of a gas at STP to find the number of moles of hydrogen gas present in that volume use the mole ratio that exists between sulfuric acid and hydrogen gas to find the number of moles of the former needed to produce that many moles of the latter use the sulfuric acid ...

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