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$$1 + \cot^2 \theta = \csc^2 \theta \Rightarrow \frac{1}{\sin^2 \theta} = 1 + \cot^2 \theta \Rightarrow \sin^2 \theta = \frac{1}{1 + \cot^2 \theta} \Rightarrow \sin \theta = \pm \sqrt{\frac{1}{1 + \cot^2 \theta}}$$

Since θ is in Quadrant III, $\sin \theta = -\sqrt{\frac{1}{1 + \cot^2 \theta}}$, $\sin \theta = -\sqrt{\frac{1}{1 + x^2}} = -\sqrt{\frac{1}{1 + 0.5126^2}} \approx -0.8899$.