MA 126 — Fall 2016 — Prof. Clontz — Quiz

Name: _____

7. Find $\int \frac{1}{\sqrt{9-y^2}}\,dy$. (Recall $\int \sec\theta\,d\theta = \ln|\sec\theta+\tan\theta| + C$.)

   A. $\ln|\sqrt{1+\frac{1}{9}y^2}+\frac{y}{3}| + C$.

   B. $\sin^{\leftarrow}(\frac{y}{9}) + C$

   C. $\ln(\sqrt{9+\frac{1}{9}y^2}) + C$

   D. None of these.

8. Find $\int \frac{1}{x\sqrt{4x^2-1}}\,dy$ where $x > \frac{1}{2}$.

   A. $\tan^{\leftarrow}(4x^2-1) + \ln|x| + C$

   B. $\sec^{\leftarrow}(2x) + C$

   C. $\ln|x+\sqrt{4x^2-1}| + C$

   D. None of these.