

Answers for Quiz #8

1. a. $\ln|x^2 + 4| - \frac{3}{2} \arctan\left(\frac{x}{2}\right) + C$
- b. 0
- c. $\pi - \frac{9\pi}{8}$
- d. $\frac{\arccos^2(e^{-x})}{2} + C$
- e. $\frac{1}{2} \arctan\left(\frac{x+7}{2}\right) + C$
- f. $\frac{1}{\sqrt{3}} + \sqrt{3} - \frac{1}{2} - \ln\left(1 + \frac{1}{2}\right) + \ln\left(1 + \frac{\sqrt{3}}{2}\right)$
- g. $\frac{e^{2x}}{2} + 2x - \frac{e^{-2x}}{2} + C$
- h. $\frac{(\tan 4x) \ln(\tan 4x)}{4} - \frac{(\tan 4x)}{4} + C$
- i. $x \cos(x+2) - \cos(x+2) + C$
- j. $x^2 \arctan 3x^2 - \frac{1}{6} \ln|9x^4 + 1| + C$

If you feel that there are errors with this answer page, please email Brian Beck-Smith at bbeck@utdallas.edu.