

Answers for Quiz #5

1. Dimensions: 18 ft x 18 ft x 18 ft; Maximum volume: 5432 ft³
2. Dimensions: 10 in x 12.5 in; Minimum area: 125 in²
3. $r = 4$ in, $h = 4$ in
4. Approximately 0.495
5. Approximately -0.181 m
6. a. $\frac{x^3}{3} - \frac{2x^{5/2}}{5} + C$
b. $-\cos x + 3 \cot x + C$
7. $y = \tan x - x + \frac{\pi}{4}$; $y(0) = \frac{\pi}{4}$

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