

Answer Key for Cylindrical Shells

1. $\frac{4\pi}{3}(6^{\frac{3}{2}} - 2^{\frac{3}{2}})$

2. $\frac{2673\pi}{2}$

3. $\frac{24\pi}{5}$

4. 80π

5. $2\pi(3e^2 - 2e)$

6. $2\pi(\ln 2)^2$