(h) radius

$$= 2\pi \left[\frac{64}{3} - \frac{64}{5} \right]$$

$$= 2\pi \left[\frac{(64 \times 5) - (64 \times 3)}{15} \right]$$

$$= 2\pi \times \frac{128}{15}$$

$$= \frac{256\pi}{15}$$