

Section 3.10 HW Hints

35. Write the surface area in terms of the circumference:

$$S = 4\pi r^2 \quad \text{and} \quad C = 2\pi r$$

(Now write S only in terms of C)

36. Use dV to approximate ΔV , which is the amount of paint needed for the half sphere.
43. Is a good graphical exercise.