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FRI

12.6 | Spheres



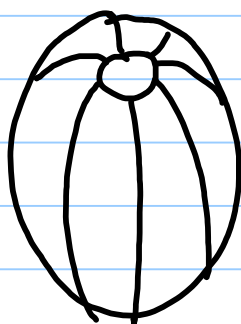
Thm 12-13
Surface Area of a Sphere

$$S = 4\pi r^2$$

Thm 12-14
Volume of a Sphere

$$V = \frac{4}{3}\pi r^3$$

ex 1)



The radius of a beachball
is 8".
Find the surface area & volume.

$$S = 4\pi r^2$$

$$4\pi(8)^2$$

$$804.2 \text{ in}^2$$

$$V = \frac{4}{3}\pi r^3$$

$$\frac{4}{3}\pi(8)^3$$

$$2144.7 \text{ in}^3$$