# 11-6:  Surface Area & Volume of Spheres

A **sphere** is the set of all points in three-dimensional space equidistant from a center. You can think of a sphere like a round ball or globe. Here are the formulas for the surface area and volume of the sphere, as shown in class.

| Surface Area | Volume |
|---|---|
| $SA = 4 \cdot \pi \cdot r^2$ | $V = \dfrac{4}{3} \cdot \pi \cdot r^3$ or $\dfrac{4\pi r^3}{3}$ |

r = 6

14

A = 36π

C = 18π