• A large spherical balloon is being inflated so that its radius, in feet, after t minutes is given by r(t)=2t+3. Find its volume as function of t.

Volume OF SPHERE = 
$$V(r) = \frac{4}{3} \pi r^3$$

$$\Gamma(t) = 3t + 3$$

$$\sqrt{(r(t))} = \frac{3}{4} \pi (3t+3)$$