$\frac{dr}{dt} = 0.2\ ms^{-1}$

$\frac{dV}{dt} = \frac{dV}{dr} \cdot \frac{dr}{dt}$

$\frac{dA}{dt} = \frac{dA}{dr} \cdot \frac{dr}{dt}$.

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

$\frac{dV}{dr} = 4\pi r^2$

$A = 4\pi r^2$

$\frac{dA}{dr} = 8\pi r$

$\frac{dV}{dt} = \frac{dV}{dr} \cdot \frac{dr}{dt}$

$= 4\pi r^2 \cdot 0.2\ ms^{-1}$.

$= 0.8\pi r^2$. .

$= 0.8\ ms^{-1}\ \pi\ 1.6^2 m^2$.

$= 6\ m^3 s^{-1}$

$\frac{dA}{dt} = \frac{dA}{dr} \cdot \frac{dr}{dt}$.

$= 8\pi r \cdot 0.2 ms^{-1}$

$= 1.6\pi r$

$= 1.6\ ms^{-1}\ \pi \times 1.6\ m$.

$= 8 \times 10^1\ m^2 s^{-1}$.