

The area of the spill is equal $S = \pi r^2$. We have that: $\frac{dS}{dr} = (\pi r^2)' = 2\pi r$.

The radius change with speed: $\frac{dr}{dt} = 3 \left(\frac{m}{s} \right)$.

So, the area of the spill will increase with speed:

$$\frac{dS}{dt} = \frac{dS}{dr} \cdot \frac{dr}{dt} = 2\pi r \cdot \frac{dr}{dt} = 2\pi \cdot 70 \cdot 3 = 420\pi \left(\frac{m^2}{s} \right) = |\pi = 3.14| = 1318.8 \left(\frac{m^2}{s} \right).$$

Answer: $420\pi \left(\frac{m^2}{s} \right) = 1318.8 \left(\frac{m^2}{s} \right)$.