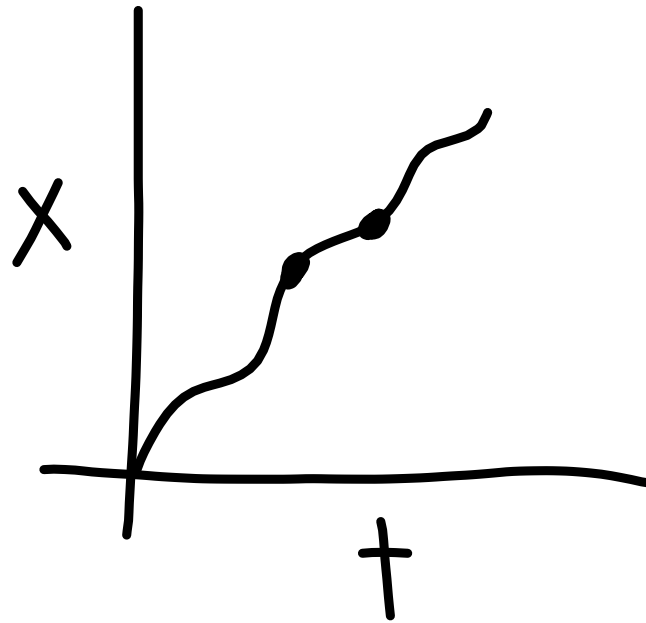




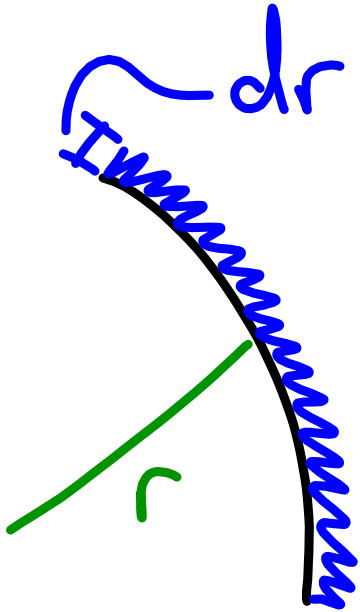
$$\frac{Dx}{Dy} \rightarrow \frac{dx}{dy}$$

ex: $A_0 = \pi r^2$

$C_0 = 2\pi r$

$S.A._0 = 4\pi r^2$

$V_0 = \frac{4}{3}\pi r^3$



The diagram illustrates a small surface element on a sphere. It shows a curved segment of a sphere's surface. A green line segment, labeled r , represents the radius from the center of the sphere to the surface. A blue wavy line segment, labeled dr , represents a small differential length along the surface, indicating the thickness of the surface element.

$$\textcircled{1} \quad 3x^4 - 7x^2$$

$$F'(x) = 12x^3 - 14x$$

$$\textcircled{2} \quad \frac{3x^2 + 9x}{x} \rightarrow \frac{\cancel{3x^2}}{\cancel{x}} + \frac{\cancel{9x}}{\cancel{x}}$$

$$3x + 9$$

$$f'(x) = 3$$

④

