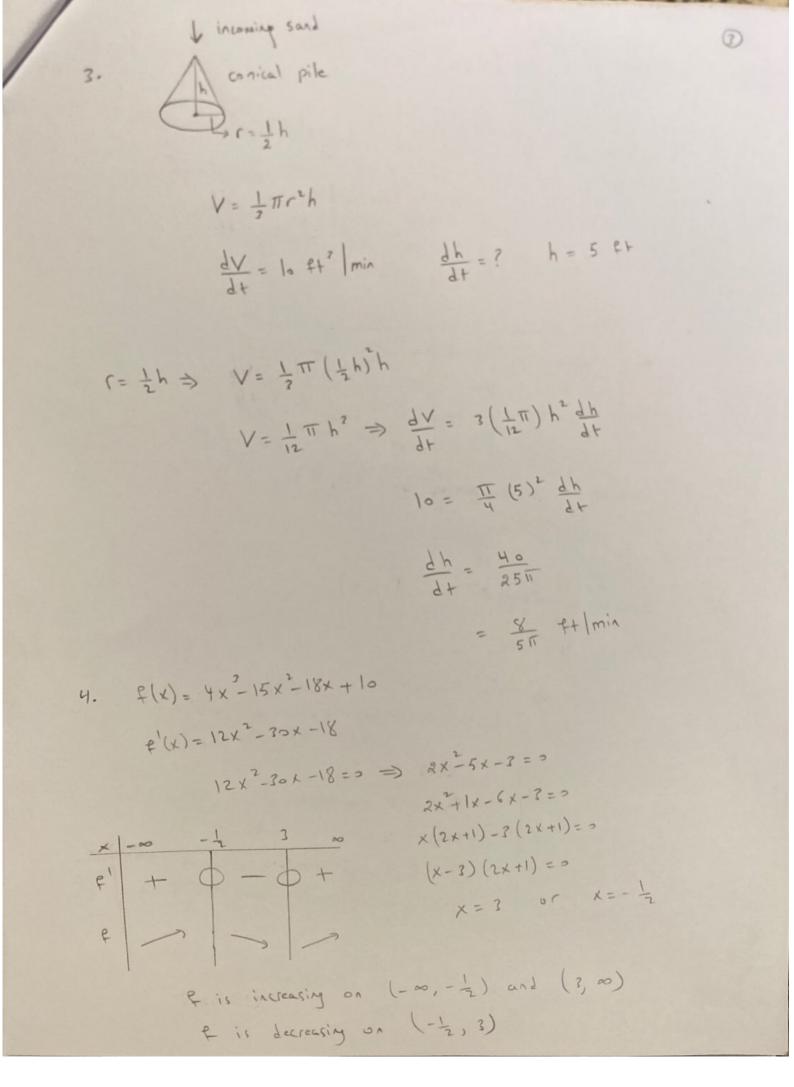
Tutovial (3)

(1)
$$\frac{dy}{dx} = ?$$
 $\frac{dy}{dx^2} = ?$ $P(x_{j-1}) \times -xy + y^2 = ?$
 $x^2 - xy + y^2 = ?$
 $2x - y - xy^2 + 2yy^2 = 0$
 $-x_j^2 + 2y_j^2 = 3 - 2x$
 $y'(2y - x) = y - 2x$
 $y' = \frac{y - 2x}{2y - x} \Rightarrow \int \frac{dy}{dx} = \frac{3 - 2x}{2y - x}$
 $\frac{dy}{dx} \Big|_{x = 2, y = 1} = \frac{(-1) - 2(2)}{2(-1) - 2}$
 $= \frac{-1 - y}{-y}$
 $= \frac{x_j}{2}$
 $= \frac{(-1)^2 - 2(2j - x)}{(2j - x)^2} = \frac{(-1)^2 - 2(2j - x)}{(2j - x)^2}$
 $= \frac{2^3}{2}$
 $= \frac{2^3}{2}$

V =
$$x^2$$
 ~ yolune of a cube

 $S = 6x^2$ ~ surface after of a cube

 $X \sim cdyc$
 $X \sim cdyc$
 $V, S \text{ and } X \text{ are functions of time}$
 $\frac{dV}{dt} = 4 m^2 | min$
 $\frac{dS}{dt} = ?$
 $S = 24m^2$
 $\frac{dV}{dt} = 2x^2 \frac{dx}{dt}$
 $S = 24 = 6x^2 \Rightarrow x^2 = 4$
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5)
$$e^{1}(x) = e^{(x-y)^{2}} (x^{2}+x+2)^{2}(x-2)^{2}(x-1)$$

$$e^{1}(x) = 0 \implies e^{(x-y)^{2}} (x^{2}+x+2)^{2}(x-2)^{2}(x-1) = 0 \implies e^{(x-y)^{2}} (x^{2}+x+2)^{2}(x-2)^{2}(x-1) = 0 \implies e^{(x-y)^{2}} (x^{2}+x+2)^{2}(x-2)^{2}(x-1) = 0 \implies e^{(x-y)^{2}} (x-2)^{2}(x-1) = 0 \implies e^{(x-y)^{2}} (x-2)^{2}(x-2) = 0 \implies e^{(x-y)^{2}} (x-2)^{2}(x-2)^{2} (x-2)^{2}(x-2) = 0 \implies e^{(x-y)^{2}} ($$

