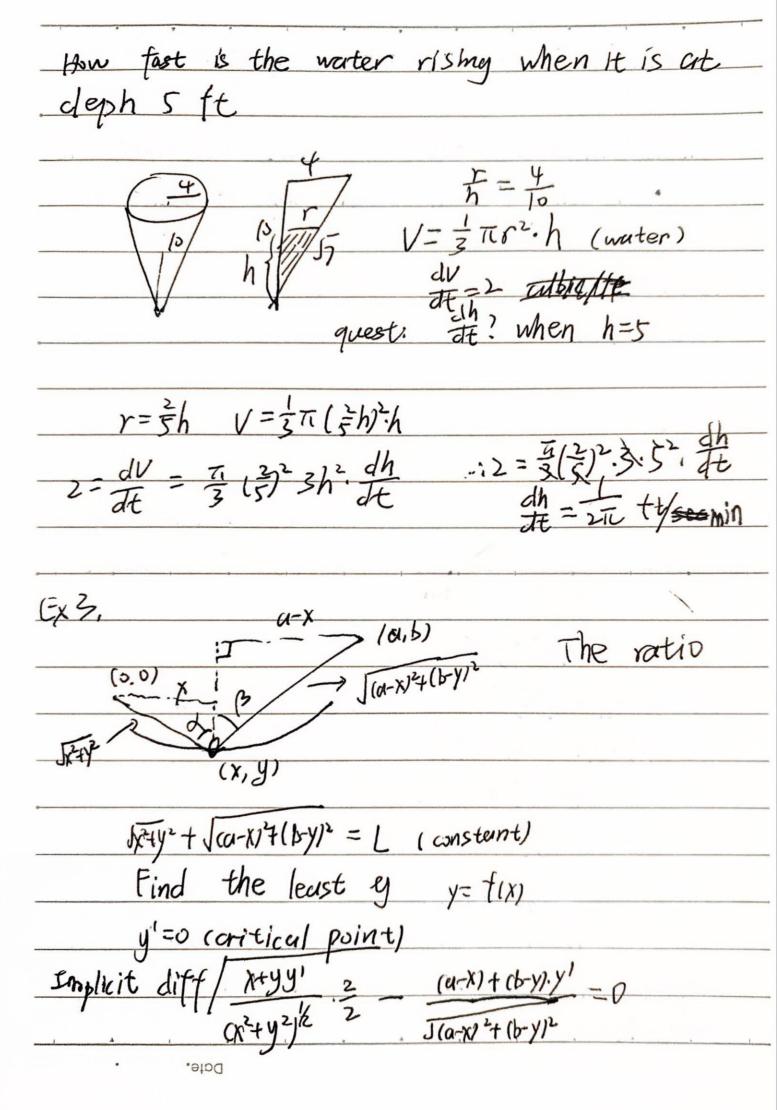
Related Rates 2024.12.2 LEC 13 Police 50=1) lare, you speeding over The = -80 tt/see < You X2+30=D2, dD=-80 (aule solve for X = JD=302) use implicit ditt: 器·2X=2D.器 2.40. \$ = 2.50(-80) dx = -100 te/see (图部中外(新) Ex2 A conical tank with top of radius 4th depth 10 ft, is being filled at so 2 cubic feet per minute. Date.



as
$$y'=0$$
 $\frac{x}{\sqrt{x}} = \frac{a \cdot x}{\sqrt{(a \cdot x)^2 + (b \cdot y)^2}}$

11

Sind = Sim/5

 $A = C$

Example Solve $x'=S$

$$fu = x^2 - S = 0$$
 $X_1 = x_1 - X_2 - S$

$$X_2 = X_3 - X_4 - X_4 - S$$

$$X_3 = X_1 = X_2 - X_4 - S$$

$$X_4 = X_4 - X_4 - S$$

$$X_5 = X_4 - X_4 - S$$

$$X_6 = X_6 - X_6 - S$$

$$X_1 = X_4 - X_4 - S$$

$$X_2 = X_4 - X_4 - S$$

$$X_4 = X_4 - X_4 - S$$

$$X_5 = X_4 - X_4 - S$$

$$X_6 = X_6 - X_6 - S$$

$$X_1 = X_4 - X_4 - S$$

$$X_2 = X_4 - X_4 - S$$

$$X_3 = X_4 - S$$

$$X_4 = X_4 - X_4 - S$$

$$X_5 = X_4 - X_4 - S$$

$$X_6 = X_4 - X_4 - S$$

$$X_1 = X_4 - X_4 - S$$

$$X_2 = X_4 - X_4 - S$$

$$X_3 = X_4 - S$$

$$X_4 = X_4 - X_4 - S$$

$$X_4 = X_4 - X_4 - S$$

$$X_5 = X_4 - X_4 - S$$

$$X_5 = X_5 - X_4 - S$$

$$X_1 = X_4 - X_4 - S$$

$$X_1 = X_4 - X_4 - S$$

$$X_2 = X_4 - X_4 - S$$

$$X_3 = X_4 - X_4 - S$$

$$X_4 = X_4 - X_4 - S$$

$$X_4 = X_4 - X_4 - S$$

$$X_4 = X_4 - X_4 - S$$

$$X_5 = X_4 - X_4 - S$$

$$X_4 = X_4 - X_4 - S$$

$$X_5 = X_5 - X_4 - S$$

$$X_5 = X_5 - X_4 - S$$

$$X_1 = X_4 - X_4 - S$$

$$X_1 = X_4 - X_4 - S$$

$$X_2 = X_4 - X_4 - S$$

$$X_3 = X_4 - X_4 - S$$

$$X_4 = X_4 - X_4 - S$$

$$X_4$$