Problem 1:

7.17 th

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力

$$z_{\star} = N_{\epsilon}(x_{t}) + \delta_{t}$$

[bassan was

X +1 ER YAT A ER WEN X + ER YAT WEE RUN

Eucliden distance
$$d = [(P_x - l_x)^2 + (P_y - l_y)^2]^{1/2}$$

$$d_z = [(P_x - l_x)^2 + (P_y - l_y)^2]^{1/2}$$

$$d_z = [(P_x - l_x)^2 + (P_y - l_y)^2]^{1/2}$$

C)
$$J = \begin{bmatrix} \frac{\partial d_1}{\partial Px} & \frac{\partial d_1}{\partial Vx} & \frac{\partial d_1}{\partial Py} & \frac{\partial d_1}{\partial Vy} \\ \frac{\partial d_2}{\partial Px} & \frac{\partial d_2}{\partial Vx} & \frac{\partial d_2}{\partial Py} & \frac{\partial d_2}{\partial Vy} \end{bmatrix} \rightarrow because velocity is constant, $\frac{\partial d_1}{\partial V_1} = 0$$$



