250 0 1 91 V= Jv 2 Jr = ? + atan2 (0.8,0,2 y = 92 cos 21 DC = - 92 Sin 21  $\partial v = \begin{cases} \frac{\partial x}{\partial q_1} & \frac{\partial x}{\partial q_2} \\ \frac{\partial y}{\partial q_3} & \frac{\partial y}{\partial q_3} \end{cases} = \begin{cases} \frac{1}{2} \cos q_1 & \cos q_1 \\ -2z \sin q_1 & \cos q_1 \end{cases}$ 37  $\dot{q} = 5$  v = 5  $\dot{q} = 5$  v = 7  $\dot{q} = 7$   $Q_{1} = 107.4^{\circ} \quad q_{2} = 0.8382 \,\text{m}$   $= - \begin{bmatrix} -0.3568 & -0.341 \\ 0.9542 & +0.2990 \end{bmatrix}$ V= [0.5] 2 = [-0.56922 rad/s -0.1495 = m/s./AAAA

