Question: Solve the nuerse for [1 2 3]. If there is, solve;

A = 4 5 6 if there isn't, explain. Solution. Let P be A's inverse, so me have that AP=I. · So we have. [1 2 3] [A. A. A. A.] = [1 0 0]

7 8 9] [B. B. B.] = [0 1 0]

7 8 9] [B. B. B.] which can be represented as this augmented matrix: 1 2 3 1 0 0 7 R3: Add Ri and Gulstreet 2 = R2.
4 5 6 0 1 0 and we have: and we have: ⇒. [1 2 3 | 1 0 0] Now, we have a row of Os,

4 5 6 0 1 0 | hut the right side is not 0. Thus, we reached an ending condition, and have an inverse

(e. Z.17.