$$62 = 0$$

$$= A \times 1 = 0$$

$$= (1 - ad - bc)$$

$$= (ad - bc)$$

$$= (ad - bc)$$

$$= (ad - bc)$$

$$= (ad - bc)$$

IF DET (A) = 0 THEN Ad - bc = 0,

AND  $A^{-1}$  CONTAINS TERMS DIVIDED BY Ad - bc, so  $A^{-1}$  CANNOT EXTST

IF DET (A) = 0, ... FOR  $A^{-1}$  TO EXIST  $DET(A) \neq 0$