3
$$tr(A) = tr(5) = 3+1 = 4$$

$$(4)$$
 det $(A) = det (5) = 3(1) - 5(-2)$
= 3 + 10
= 13

multpy 1 We can Since the inner dimensions m atch

2×3 12×2 Since the inner dimercia inner dimensions clo not matry

$$= \begin{bmatrix} 3 & 4 & 5 \\ 5 & 11 & 17 \end{bmatrix}$$

(1) A matrix has an induce as

long as its determinant is not as $\det(B) = \det\left(\frac{3}{-1}, \frac{-1}{2}\right) = 3(2) - (-1)(-1)$ = (6 - 1) = 5

from #11 det (B) = 5

& chaye sight on off-tragend plents

 $\begin{bmatrix} 2 & 1 \\ 1 & 3 \end{bmatrix}$

multiply this matrix by reciprocal of def

$$\frac{1}{5}\begin{bmatrix}2\\1\\5\end{bmatrix} = \begin{bmatrix}\frac{1}{5}\\\frac{3}{5}\end{bmatrix}$$

OR [.4 .2]

Create 2 column (or rows) that are independent; write | col. 1 # c(col. 2) where c is any number many options, her is one $\begin{vmatrix} 2 & 5 \\ 3 & 0 \end{vmatrix}$ here $\begin{vmatrix} 1 \\ 2 \\ 5 \end{vmatrix}$ Now write col. 3 as a linear combining of col. 1 as col. 2; i.e, (co).3 = a(co).1) + b(co).2)here I choose a = Z a > 1 = 0 2 5 4 5

