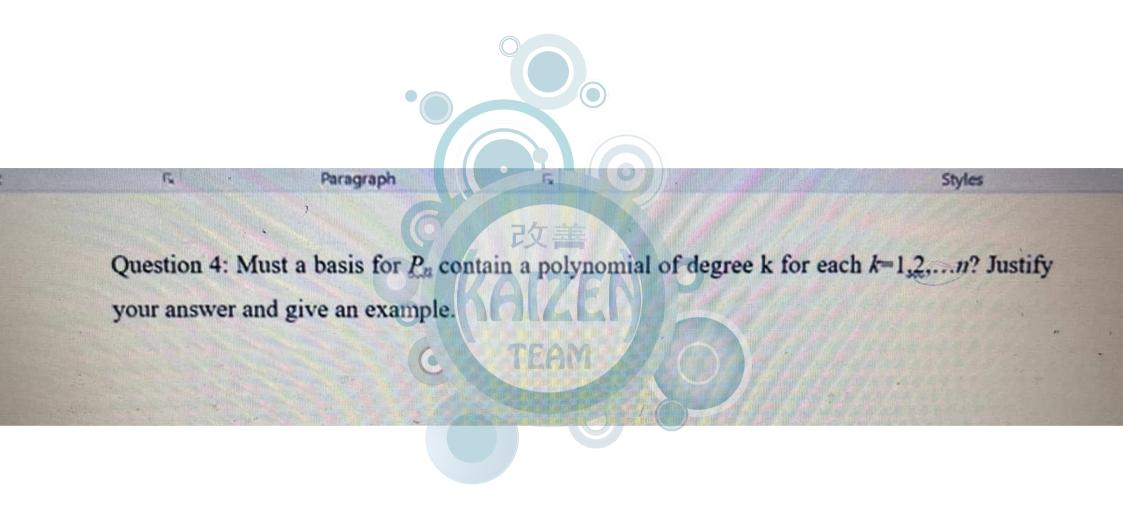
Question 1: If all entries of a square matrix A are integers and $det(A) = \pm 1$, show that all entries of A-1 are integers.

Contact A are integers and $det(A) = \pm 1$, show that all entries of A-1 are integers.





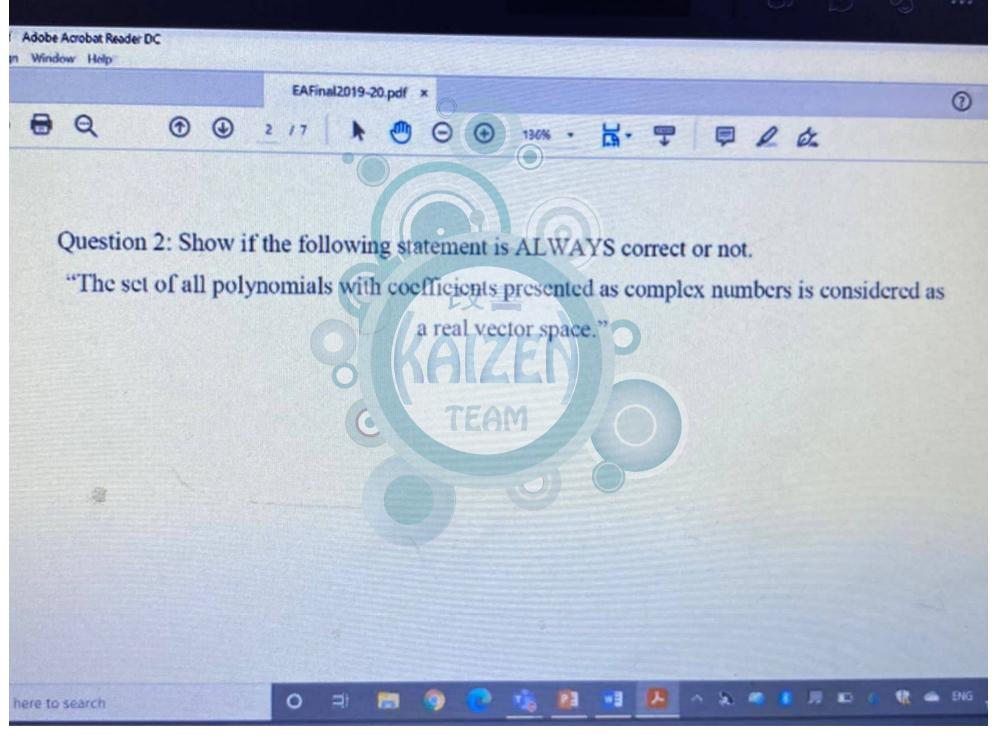
TEAM

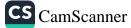
$$(u+v)S = (u)S + (v)S$$

$$(kv)S = k(v)S$$



Question 6: Show if the following set of vectors form basis. $v_1 = (6, -3, 5)$ $v_2 = (2, 7, 5)$ $v_3 = (14, 6, 6)$





Question 7: Assume that V consists of all vectors that are defined in R3 and have the following

form:

$$\begin{bmatrix} q+t \\ 2r-t \\ 3s+t \end{bmatrix}$$

where q. r. s and t are real numbers. Is V considered as a vector space or not.

