WORK SHEET FOR G11 TAHISAS 2016 E.C

1, if A is a skew symmetric matrix of order 3, then what will be det(A)?

2, Let A = $\begin{bmatrix} 2 & 3 \\ 1 & -2 \end{bmatrix}$,and if $A^{-1} = KA$, then K = ---?

3, Let A = $\begin{bmatrix} 6 & 5 \\ 7 & 6 \end{bmatrix}$, then show that A.(AdjA) = |A|.

4, Let A = $\begin{bmatrix} 2 & 3 \\ -1 & 2 \end{bmatrix}$, show that $A^2 - 4A + 7 = 0$.

5 Let A = $\begin{bmatrix} 3 & -4 \\ 1 & -1 \end{bmatrix}$, then A^{20} = ? and A^n = ? $n \in N$.

6, If A = $\begin{bmatrix} 1 & 0 & 0 \\ 0 & 1 & 1 \\ 0 & -2 & 4 \end{bmatrix}$, $6A^{-1} = A^2 + CA + D$, then C = ?, D = ?

7, for what value of x does A $\begin{bmatrix} x-1 & 1 & 1 \\ 1 & x-1 & 1 \\ 1 & 1 & x-1 \end{bmatrix}$ has no inverse?

8,if A is skew symmetric matrix of order 3 , the matrix A^4 = ? (type)

Set by Endash math Tahisas 2016 E.C