Sub: Date:

Mahatab Ben Zahid ID: 1722360043

Am NO-2

A =
$$\begin{bmatrix} 5 & -7 & 1 \\ -7 & 8 & 2 \\ 2 & -4 \end{bmatrix}$$

hette

 $2A = \begin{bmatrix} 101 & -14 & 21 \\ -14 & 16 & 4 \\ 2 & 4 & 4 \end{bmatrix}$

$$A^{T} = \begin{bmatrix} 5 & -7 & 1 \\ -7 & 8 & 2 \\ 1 & 2 & -4 \end{bmatrix}$$
++\tag{1}{7} = 5 + 8 - 4 = 9

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$$2A = \begin{bmatrix} 10 & -14 & 2 \\ -14 & 16 & 4 \end{bmatrix}$$

$$= 10(14.(-8) + 16) + 14(-14.-8) + 4.2) + 2.(-14.4 + 16.2)$$

$$A = \begin{bmatrix} 5 & -7 & 1 \\ -7 & 8 & 2 \\ 1 & 2 & -4 \end{bmatrix}$$

$$= 5(8.-4+4)+7(-7.-4+8)+$$

$$1(-7.2+8)$$

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$$f)^{\gamma} = (-6)^{\gamma}$$

$$= 36.$$

:
$$A^2 + 2A + 4rea(A^{\dagger}) = 9 + 896 + 36$$

= 941