

Exercice 37 page 98

Sésamath

Maths TS spécialité



Calculer A^2 , puis A^3 :

$$1 \quad A = \begin{pmatrix} 0 & 1 \\ -1 & 0 \end{pmatrix}$$

$$2 \quad A = \begin{pmatrix} 1 & 3 \\ -1 & 1 \end{pmatrix}$$

$$3 \quad A = \begin{pmatrix} 1 & -1 \\ 2 & 3 \end{pmatrix}$$

$$4 \quad A = \begin{pmatrix} -2 & 1 \\ -3 & 1 \end{pmatrix}$$

A l'aide de la calculatrice on a :

$$1 \quad A^2 = \begin{pmatrix} -1 & 0 \\ 0 & -1 \end{pmatrix}$$

A l'aide de la calculatrice on a :

$$\boxed{1} \quad A^2 = \begin{pmatrix} -1 & 0 \\ 0 & -1 \end{pmatrix} \quad \text{et} \quad A^3 = \begin{pmatrix} 0 & -1 \\ 1 & 0 \end{pmatrix}$$

A l'aide de la calculatrice on a :

$$1 \quad A^2 = \begin{pmatrix} -1 & 0 \\ 0 & -1 \end{pmatrix} \quad \text{et} \quad A^3 = \begin{pmatrix} 0 & -1 \\ 1 & 0 \end{pmatrix}$$

$$2 \quad A^2 = \begin{pmatrix} -2 & 6 \\ -2 & -2 \end{pmatrix}$$

A l'aide de la calculatrice on a :

$$\boxed{1} \quad A^2 = \begin{pmatrix} -1 & 0 \\ 0 & -1 \end{pmatrix} \quad \text{et} \quad A^3 = \begin{pmatrix} 0 & -1 \\ 1 & 0 \end{pmatrix}$$

$$\boxed{2} \quad A^2 = \begin{pmatrix} -2 & 6 \\ -2 & -2 \end{pmatrix} \quad \text{et} \quad A^3 = \begin{pmatrix} -8 & 0 \\ 0 & -8 \end{pmatrix}$$

A l'aide de la calculatrice on a :

$$1 \quad A^2 = \begin{pmatrix} -1 & 0 \\ 0 & -1 \end{pmatrix} \quad \text{et} \quad A^3 = \begin{pmatrix} 0 & -1 \\ 1 & 0 \end{pmatrix}$$

$$2 \quad A^2 = \begin{pmatrix} -2 & 6 \\ -2 & -2 \end{pmatrix} \quad \text{et} \quad A^3 = \begin{pmatrix} -8 & 0 \\ 0 & -8 \end{pmatrix}$$

$$3 \quad A^2 = \begin{pmatrix} -1 & -4 \\ 8 & 7 \end{pmatrix}$$

A l'aide de la calculatrice on a :

$$1 \quad A^2 = \begin{pmatrix} -1 & 0 \\ 0 & -1 \end{pmatrix} \quad \text{et} \quad A^3 = \begin{pmatrix} 0 & -1 \\ 1 & 0 \end{pmatrix}$$

$$2 \quad A^2 = \begin{pmatrix} -2 & 6 \\ -2 & -2 \end{pmatrix} \quad \text{et} \quad A^3 = \begin{pmatrix} -8 & 0 \\ 0 & -8 \end{pmatrix}$$

$$3 \quad A^2 = \begin{pmatrix} -1 & -4 \\ 8 & 7 \end{pmatrix} \quad \text{et} \quad A^3 = \begin{pmatrix} -9 & -11 \\ 22 & 13 \end{pmatrix}$$

A l'aide de la calculatrice on a :

$$1 \quad A^2 = \begin{pmatrix} -1 & 0 \\ 0 & -1 \end{pmatrix} \quad \text{et} \quad A^3 = \begin{pmatrix} 0 & -1 \\ 1 & 0 \end{pmatrix}$$

$$2 \quad A^2 = \begin{pmatrix} -2 & 6 \\ -2 & -2 \end{pmatrix} \quad \text{et} \quad A^3 = \begin{pmatrix} -8 & 0 \\ 0 & -8 \end{pmatrix}$$

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$$4 \quad A^2 = \begin{pmatrix} 1 & -1 \\ 3 & -2 \end{pmatrix}$$

A l'aide de la calculatrice on a :

$$\boxed{1} \quad A^2 = \begin{pmatrix} -1 & 0 \\ 0 & -1 \end{pmatrix} \quad \text{et} \quad A^3 = \begin{pmatrix} 0 & -1 \\ 1 & 0 \end{pmatrix}$$

$$\boxed{2} \quad A^2 = \begin{pmatrix} -2 & 6 \\ -2 & -2 \end{pmatrix} \quad \text{et} \quad A^3 = \begin{pmatrix} -8 & 0 \\ 0 & -8 \end{pmatrix}$$

$$\boxed{3} \quad A^2 = \begin{pmatrix} -1 & -4 \\ 8 & 7 \end{pmatrix} \quad \text{et} \quad A^3 = \begin{pmatrix} -9 & -11 \\ 22 & 13 \end{pmatrix}$$

$$\boxed{4} \quad A^2 = \begin{pmatrix} 1 & -1 \\ 3 & -2 \end{pmatrix} \quad \text{et} \quad A^3 = \begin{pmatrix} 1 & 0 \\ 0 & 1 \end{pmatrix}$$