

Sujet n°14

GEOMETRY – TRUE OR FALSE QUESTIONS

Please do not write on the subject paper and don't forget to give back the examination paper at the end of the test.

In an orthonormal grid (O, \vec{i}, \vec{j}) , we know the coordinates of the following points :

- A (-3 ; 2)
- B (1 ; 3)
- C (-4 ; -1)
- D (-3 ; -3)
- E (-2 ; -1)
- F (8 ; -5)
- G (-4 ; $\frac{7}{4}$)

Are the following statements true or false? Justify your answer.

1. Quadrilateral ABCD is a trapezoid.
2. Points A, B and G are on the same line.
3. Triangle ACD is a right-angled triangle in C
4. Lines (AB), (CD) and (EF) are concurrent.
5. The height issued of vertex A in triangle ACE is parallel to the y-axis.