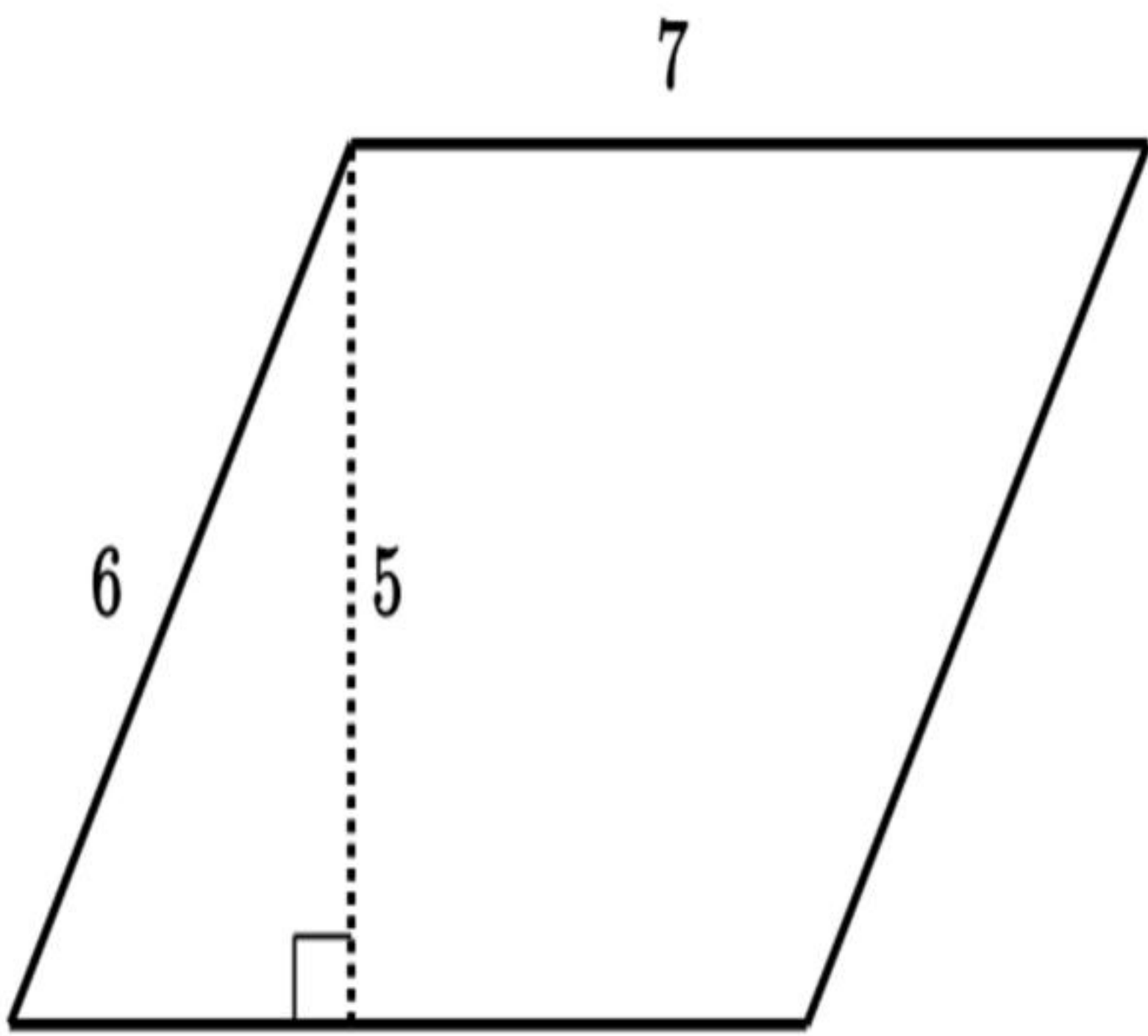


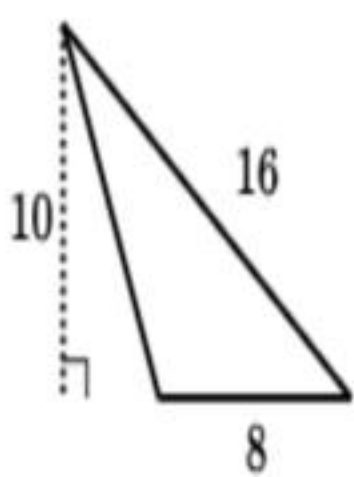
The area of the following parallelogram is 42



True or false?

Hint: Area of parallelogram
FALSE: 35

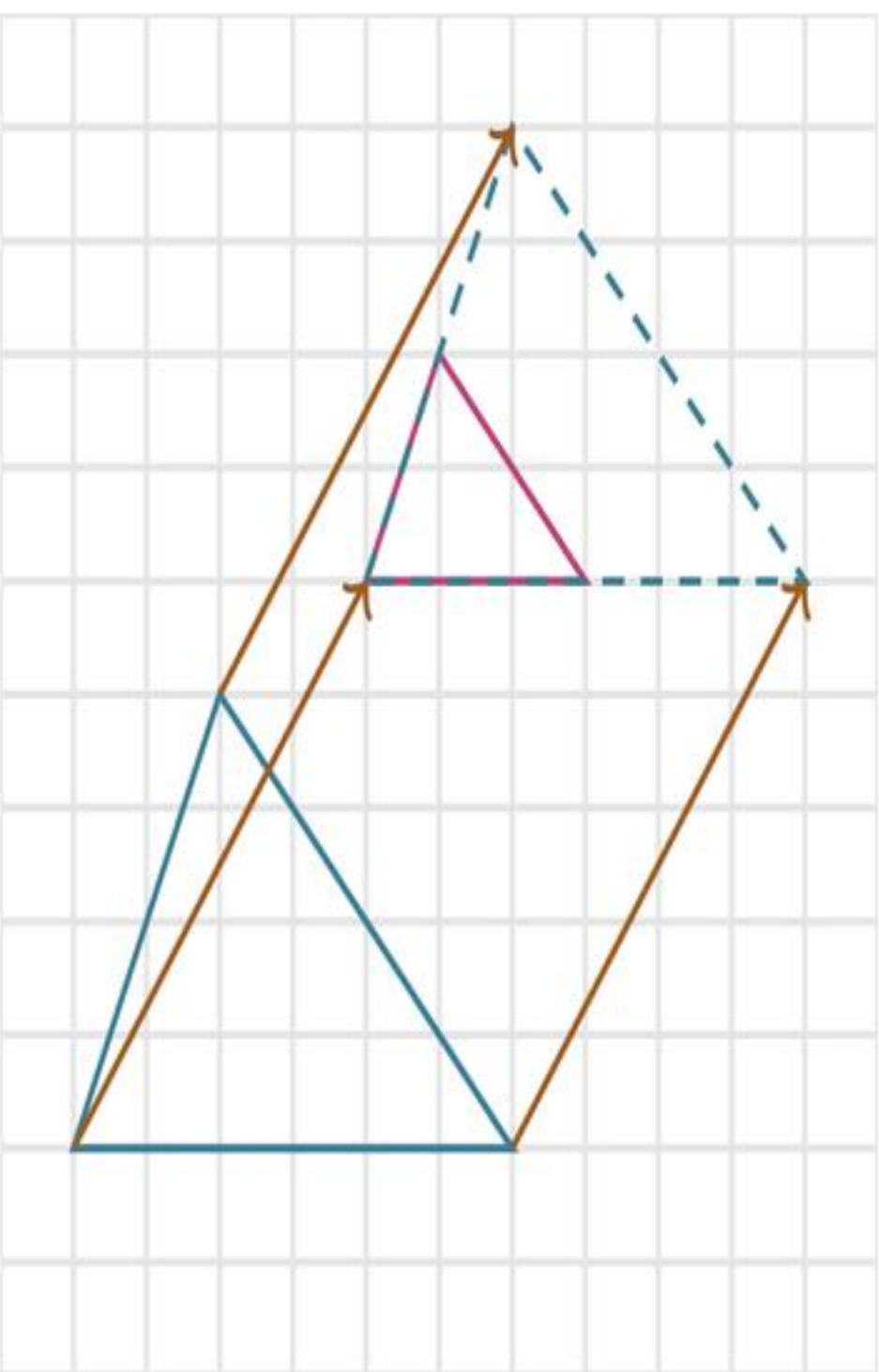
The area of the following triangle is 80



True or false?

Hint: Area of triangle
TRUE: 80

The following diagram map one figure onto the other using rigid transformations.

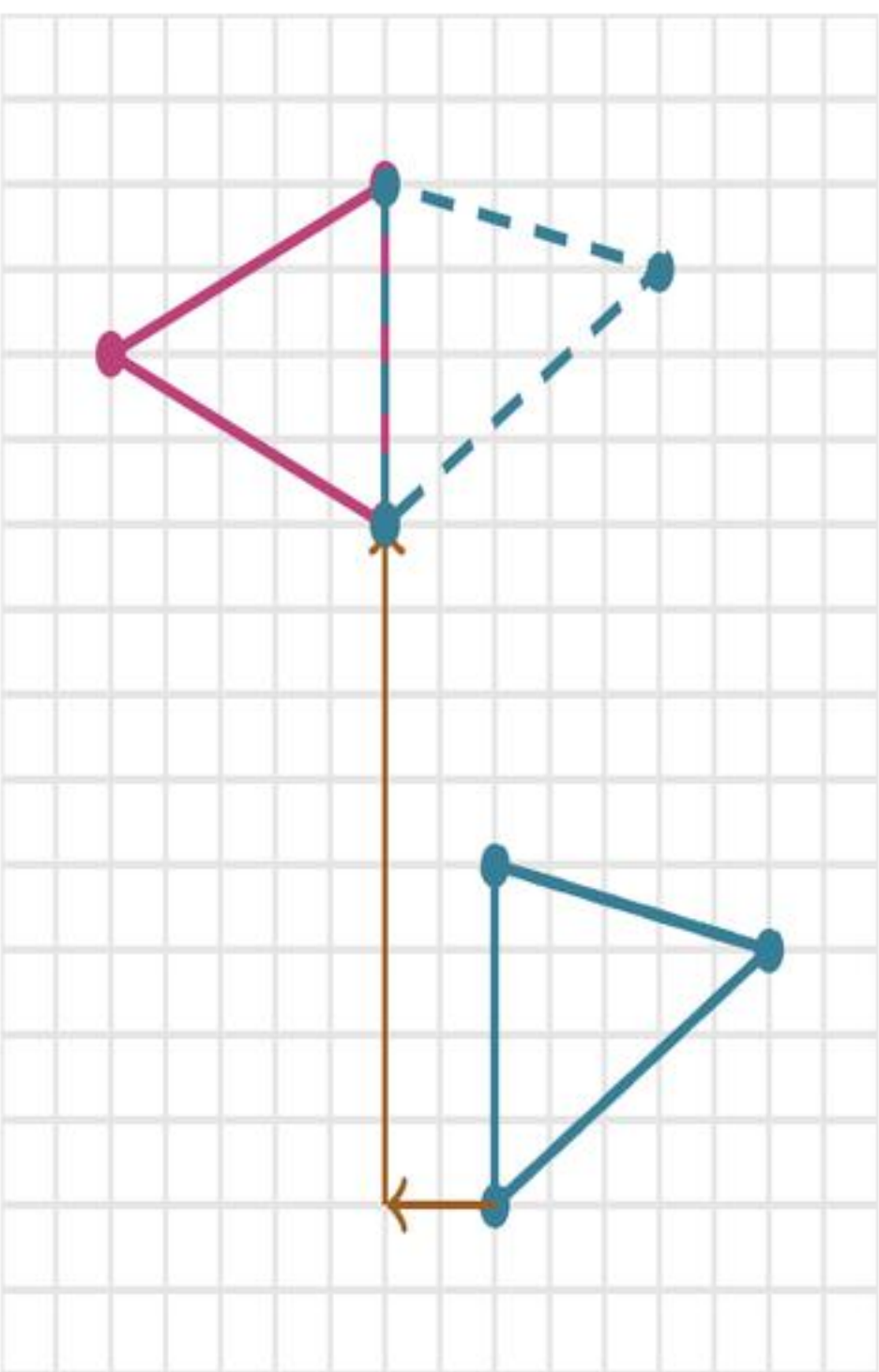


Since we cannot map $\triangle DEF$ onto $\triangle GHI$ using a sequence of rigid transformations, so the triangles are **not** similar.

True or false?

Hint: Similarity
FALSE: They are similar by dilations.

We tried to map one triangle onto the other using transformations:

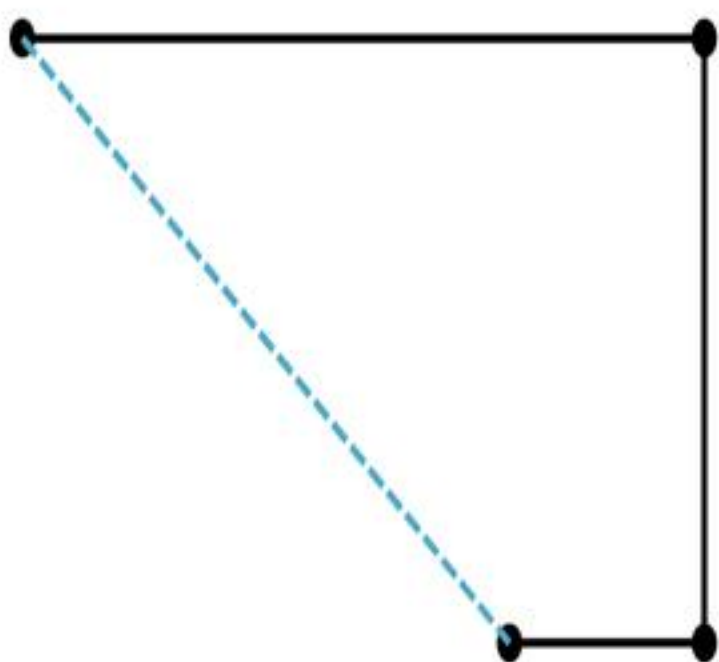


Since it is not possible to map $\triangle ABC$ onto $\triangle FED$ using a sequence of rigid transformations, so the triangles are **not** congruent."

True or false?

Hint: Congruent
TRUE: They are not congruent

Julian jogs 2 kilometers east, 4 kilometers north, and then 7 kilometers west.

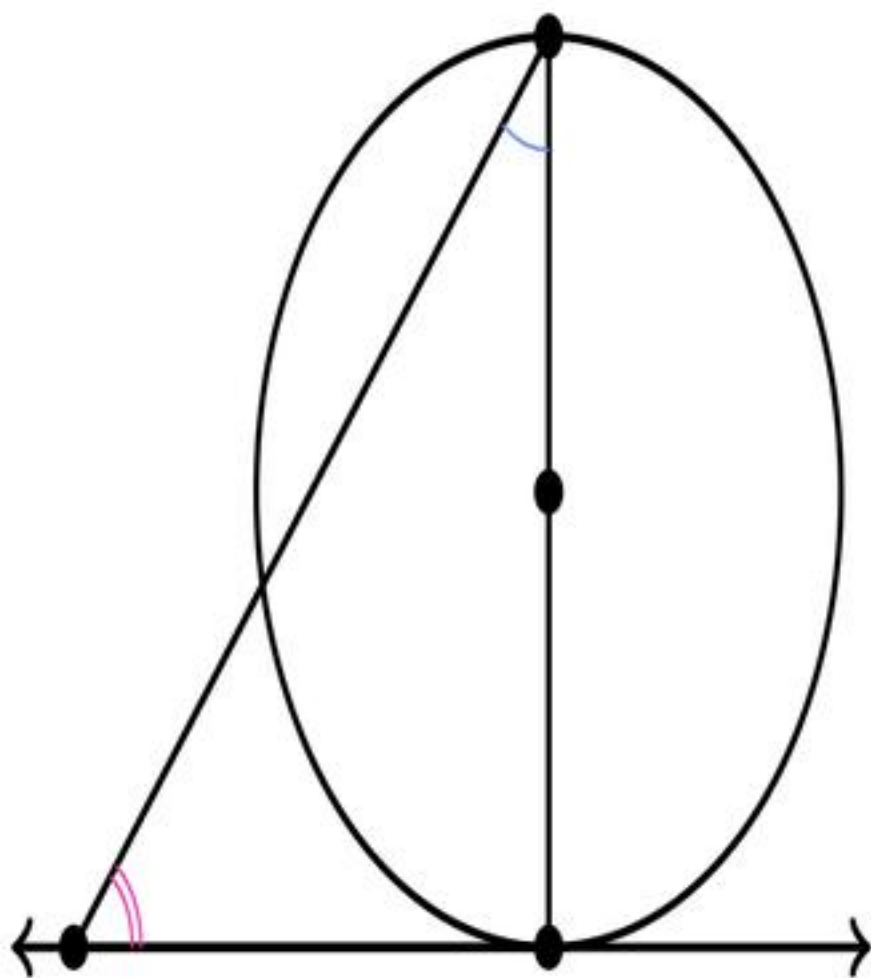


Julian is about 8 km away from the starting position (round to km)

True or false?

Hint: Pythagorean Theorem
FALSE: 6.4 km away.

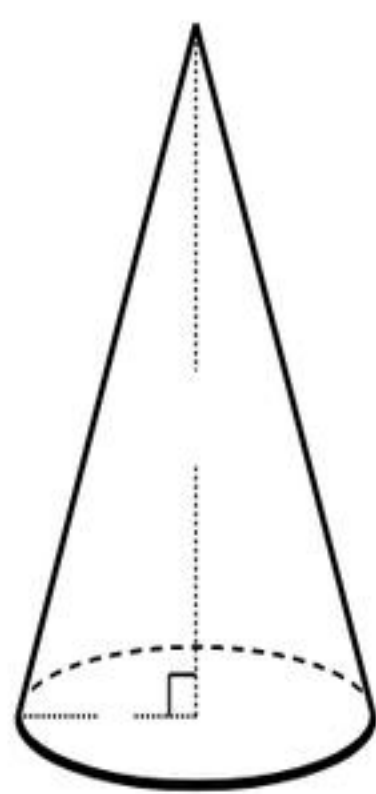
Segment \overline{BC} is a diameter of circle O .



Line \overleftrightarrow{AC} is a tangent to circle O .

True or false?

Hint: Tangent
FALSE: It is not a tangent as it is not right angle



The volume of this cone is $\frac{20}{3}\pi$

True or false?

Hint: Volume of a Cone
TRUE: