National 5 Mathematics

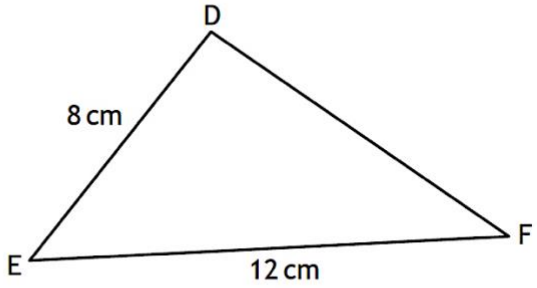
Area of a Triangle - Questions

Marks are indicated in brackets after each question number

2017 Paper 1 Question 7, (2)

In triangle DEF:

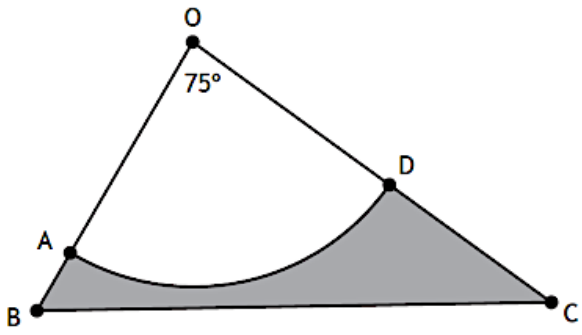
- DE = 8 centimetres
- EF = 12 centimetres
- $\sin E = \frac{2}{3}$



Calculate the area of triangle DEF.

2018 Paper 2 Question 17, (5)

In the diagram below AOD is a sector of a circle, with centre O, and BOC is a triangle.



In sector AOD:

- radius = 30 centimetres
- angle AOD = 75°.

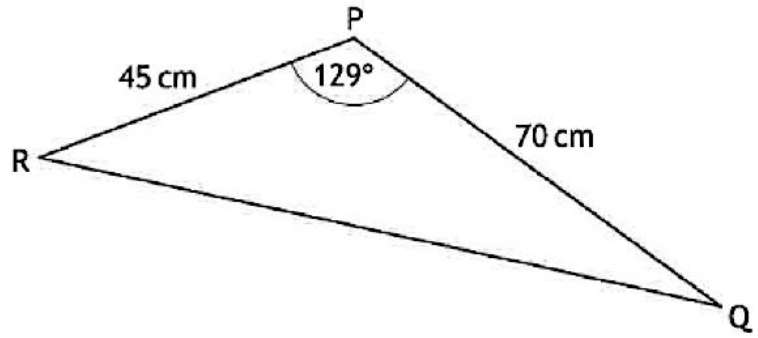
In triangle OBC:

- OB = 38 centimetres
- OC = 55 centimetres.

Calculate the area of the shaded region, ABCD.

2019 Paper 2 Question 3, (2)

The diagram shows triangle PQR.



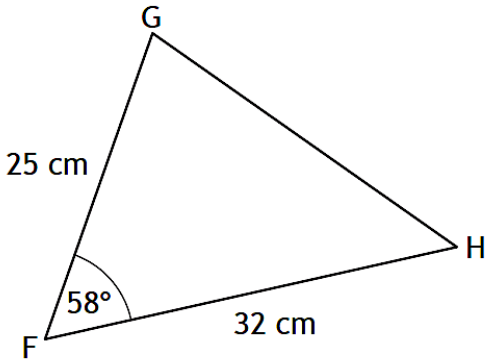
- PR = 45 centimetres
- PQ = 70 centimetres
- Angle QPR = 129°

Calculate the area of triangle PQR.

2022 Paper 2 Question 6, (2)

The diagram shows triangle FGH.

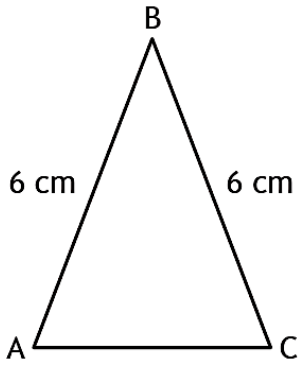
- FG = 25 centimetres
- FH = 32 centimetres
- Angle GFH = 58°



Calculate the area of triangle FGH.

2025 Paper 1 Question 5, (2)

Triangle ABC is shown in the diagram.



- AB = BC = 6 centimetres.
- $\sin B = \frac{2}{3}$.

Calculate the area of the triangle.