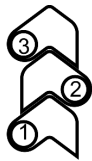
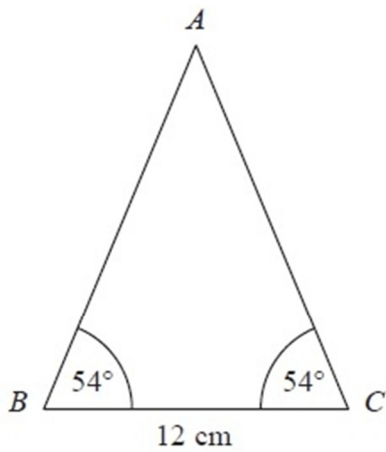
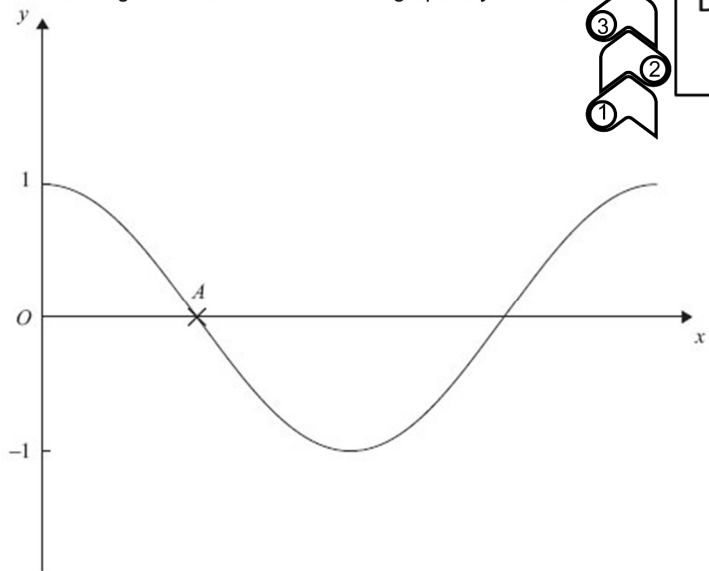


Q1. ABC is an isosceles triangle.



Work out the area of the triangle.
 Give your answer correct to 3 significant figures.
 cm²
(Total for Question is 4 marks)

Q2. The diagram shows a sketch of the graph of $y = \cos x^\circ$

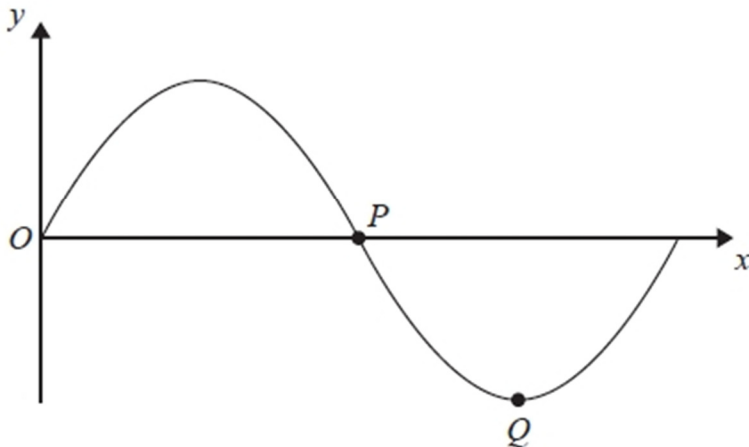


Date: _____

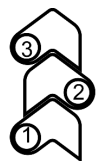
Write down the coordinates of the point A. (Total for Question is 1 mark)

- 01
- 02
- 03
- 04
- 05
- 06

Q3. The diagram shows part of a sketch of the curve $y = \sin x^\circ$.

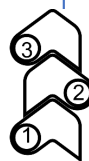
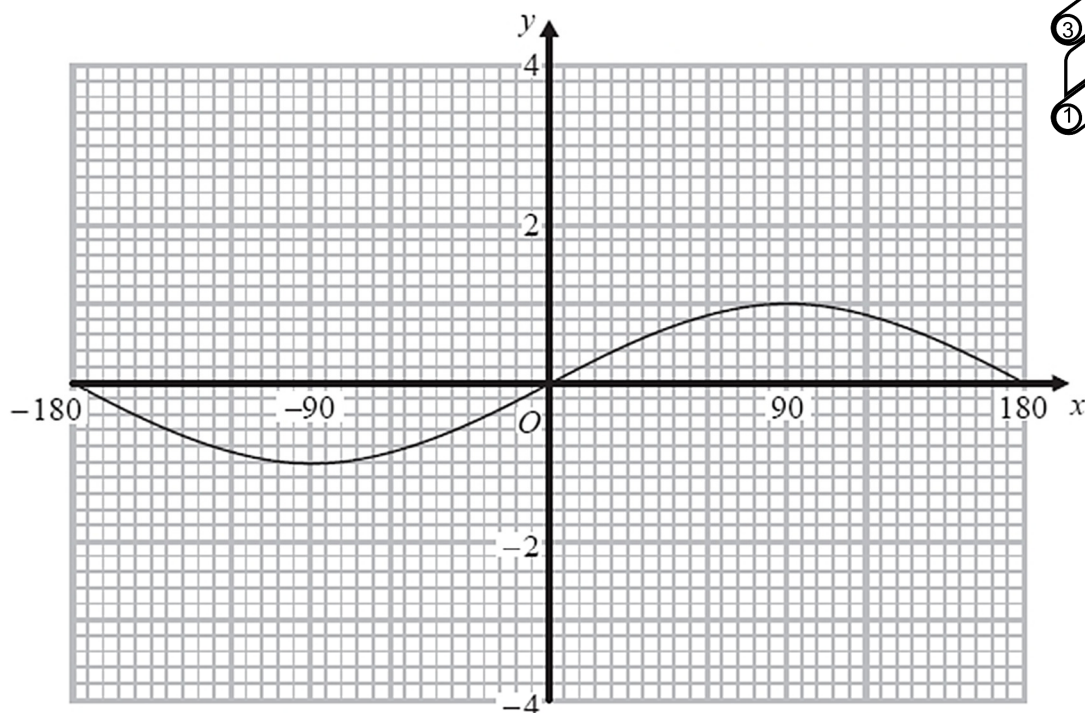


- (a) Write down the coordinates of the point P.
 (.....,) (1)
 - (b) Write down the coordinates of the point Q.
 (.....,) (1)
- (Total for Question is 2 marks)**



- 07
- 08
- 09
- 10
- 11

Q4. Here is the graph of $y = \sin x^\circ$ for $-180 \leq x \leq 180$



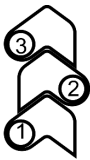
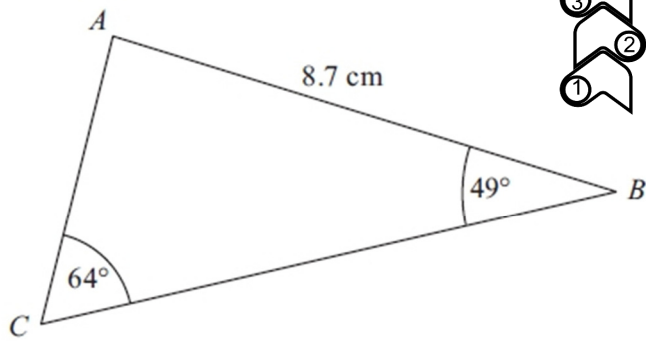
On the grid above, sketch the graph of $y = \sin x^\circ + 2$ for $-180 \leq x \leq 180$

(Total for question is 2 marks)

- 12
- 13
- 14
- 15
- 16
- 17
- 18
- 19

Mixed

Q5.



ABC is a triangle.

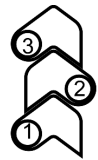
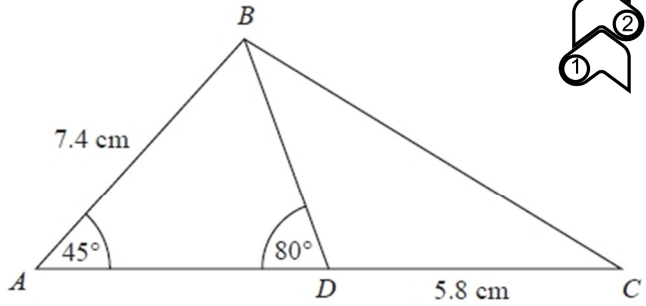
$AB = 8.7$ cm.
 Angle $ABC = 49^\circ$.
 Angle $ACB = 64^\circ$.

Calculate the area of triangle ABC .
 Give your answer correct to 3 significant figures.

..... cm²

(Total for Question is 5 marks)

Q6.



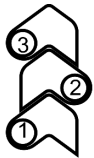
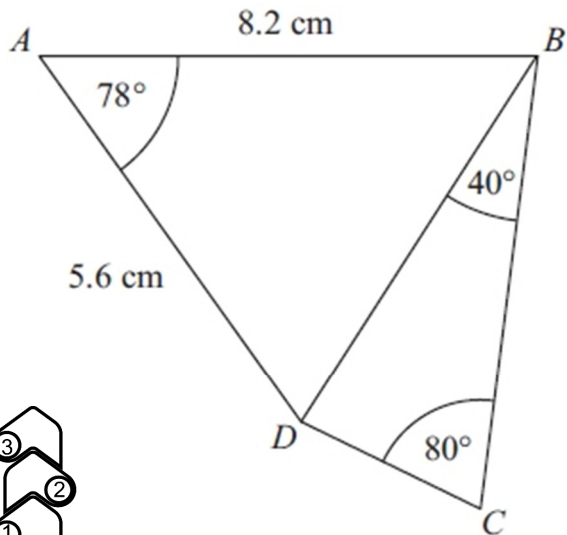
ABC is a triangle.
 D is a point on AC .
 Angle $BAD = 45^\circ$
 Angle $ADB = 80^\circ$
 $AB = 7.4$ cm
 $DC = 5.8$ cm

Work out the length of BC .
 Give your answer correct to 3 significant figures.

..... cm

(Total for question = 5 marks)

Q8. $ABCD$ is a quadrilateral.

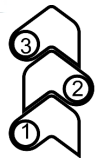
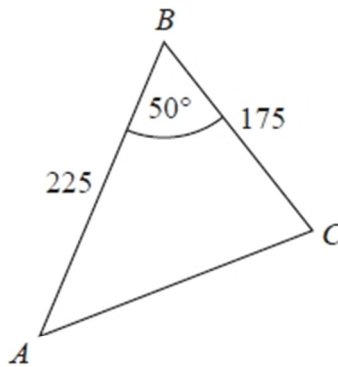


Work out the length of DC .
 Give your answer correct to 3 significant figures.

..... cm

(Total for Question is 6 marks)

Q10. Jerry wants to cover a triangular field, ABC , with fertiliser.



Here are the measurements Jerry makes

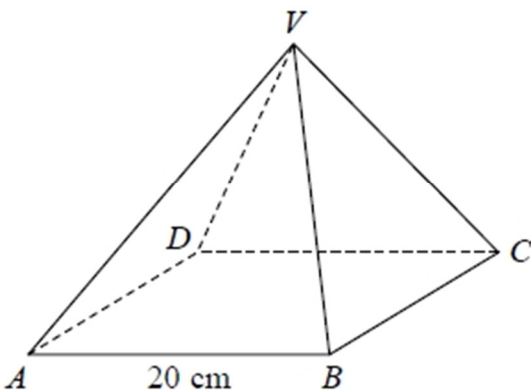
angle $ABC = 50^\circ$ correct to the nearest degree,
 $BA = 225$ m correct to the nearest 5 m,
 $BC = 175$ m correct to the nearest 5 m.

Work out the upper bound for the area of the field.
 You must show your working.

.....m²

(Total for Question is 3 marks)

Q12. $VABCD$ is a solid pyramid.



$ABCD$ is a square of side 20 cm.

The angle between any sloping edge and the plane $ABCD$ is 55°

Calculate the surface area of the pyramid.
 Give your answer correct to 2 significant figures.

.....cm²

(Total for question = 5 marks)

