

QQQ - PureYr1 - Chapter 9 – Trigonometric Ratios (v3)

Total Marks: 16

(16 = Platinum, 14 = Gold, 12 = Silver, 10 = Bronze)



The diagram shows part of the curve y = cos 2x, where x is in degrees. The point A is the minimum point of this part of the curve.

State the coordinates of A.

(2)

- **3.** In the triangle ABC, AB = 11 cm, BC = 7 cm and CA = 8 cm. Find the area of triangle ABC, giving your answer in cm2 to 3 significant figures. (3)
- 4. In the triangle ABC, AB = 16 cm, AC = 13 cm, angle $ABC = 50^{\circ}$ and angle $BCA = x^{\circ}$
 - (a) Find the size of angle C, giving your answer in degrees to 3 significant figures. (3)
 - (b) Find the two possible values for x, giving your answers to one decimal place. (4)