<u>Trigonometry – AS Mathematics P2</u>

1. June/2022/Paper_7356/02/No.2

Given that

$$\cos{(\theta-20^\circ)}=\cos{60^\circ}$$

which one of the following is a possible value for θ ?

Circle your answer.

[1 mark]

40° 140°

280°

320°

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Triangle ABC has sides of length (m-n), m and (m+n) where 0 < 2n < mAngle A is the largest angle in the triangle.

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(a) (i) Explain why angle A must be opposite the side of length (m -	– n)

[1 mark]

[3 marks]

(a) (ii)	Using the cosine rule, show that $\cos A =$	m-4n
(a) (II)	Using the cosine rule, show that $\cos A =$	$\overline{2(m-n)}$

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b)	You are given that BC is the diameter of a circle, and A lies on the circumference of the circle. The value of m is 8
	Calculate the value of n. [3 marks