

ZIMSEC JUNE 2020

SUGGESTED MARKING GUIDE

PURE MATHEMATICS

PAPER 2

6042/2

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NB: If a numerical answer cannot be given exactly, and the accuracy required is not specified in the question, then in the case of an angle it should be given to the nearest degree, and in other cases it should be given correct to 2 significant figures.

Section A (40 marks)

Answer all questions in this section

1) a)



(a) Aside:

$$(AB)^2 = r^2 + r^2 - 2 \times r \times r \cos(\pi - 2\theta)$$

$$AB = 2r^2 - 2r^2(\cos\pi\cos2\theta + \sin\pi\sin2\theta)$$

$$AB = 2r^2 - 2r^2[(-1)\cos2\theta + (0)\sin2\theta]$$

$$\Rightarrow AB = 2r^2 + 2r^2\cos2\theta$$

$$\Rightarrow AB = \sqrt{2r^2 + 2r^2\cos2\theta}$$

$$\Rightarrow AB = \sqrt{2r^2 + 2r^2(2\cos^2\theta - 1)}$$

$$\Rightarrow AB = \sqrt{2r^2 + 4r^2\cos^2\theta - 2r^2}$$

$$\Rightarrow AB = \sqrt{4r^2\cos^2\theta}$$

Zimsec A Level Pure Mathematics 2014

Arthur James Wells



Zimsec A Level Pure Mathematics 2014:

Yearbook of International Organizations 2013-2014 (Volumes 1a-1b) Union Of International Associations, Union of International Associations, 2013-06-21 Volume 1 A and B covers international organizations throughout the world comprising their aims activities and events The British National Bibliography Arthur James Wells, 1995

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