WORKSHEET

Name: ..... Class: .....

Date: .....

MARK ____ / 22

Answer all questions. Show all your working — marks are awarded for method as well as the final answer.

1 Determine the general solution of $\sin\theta = 0{,}5$ **(3)**

2 Determine the general solution of $\cos\theta = -0{,}5$ **(3)**

3 Determine the general solution of $\tan\theta = \sqrt{3}$ **(2)**

4 Solve $\sin\theta = 0{,}5$ for $\theta \in [0° ; 360°]$ **(2)**

5 Solve $\cos\theta = 0{,}7660$ for $\theta \in [0° ; 360°]$ (round to one decimal) **(3)**

6 Determine the general solution of $\tan(2x - 30°) = 1$ **(3)**

7 State the reference angle for $\sin\theta = 0{,}8660$. **(1)**

8 Determine the general solution of $\sin 2\theta = \cos\theta$. **(4)**

9 Why must $k \in \mathbb{Z}$ be written down? **(1)**

TOTAL: 22 marks

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