GRADE 10 · TRIGONOMETRY

Special Angles, Reciprocal Ratios & Trig Equations (Grade 10)

WORKSHEET

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

Date: .....

MARK ____ / 18

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

1 Write down the value of sin $30°$ without using a calculator. (1)

2 Evaluate sin $30° + \cos 60°$ without using a calculator. (2)

3 Evaluate $\tan 60° \times \cos 30°$ without using a calculator. (2)

4 Write down the value of $\text{cosec}30°$. (1)

5 Write down $\sec 60°$. (1)

6 Write down $\cot 45°$. (1)

7 Solve for θ if $2\sin\theta = 1$ and $\theta \in [0° ; 90°]$. (2)

8 Solve for θ if $3\tan\theta - 3 = 0$ and $\theta \in [0° ; 90°]$. (3)

9 Solve for θ if $\cos 2\theta = 0{,}5$ and $\theta \in [0° ; 90°]$. (3)

10 Why is $\tan 90°$ undefined? (2)

TOTAL: 18 marks

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