

WANDOOR GANITHAM - S S L C UNIT TEST 2021

11.5BE

TRIGNOMETRY – ANSWER KEY

Qn no.	Key	Score	
1	a) 60° b) $4\sqrt{2} \text{ cm}$	1 1	2
2	a) $\frac{8}{\sqrt{2}} \text{ cm}$ b) $\frac{1}{2} \times 10 \times \frac{8}{\sqrt{2}} = \frac{40}{\sqrt{2}} \text{ cm}^2$	1 1	2
3	a) $\frac{3}{5}$ b) $\frac{3}{4}$	1 1	2
4	a) 90° b) 2 cm c) $2\sqrt{3} + 2\sqrt{3} = 4\sqrt{3} \text{ cm}$	1 1 1	3
5	a) 9 cm b) $9\sqrt{3} \text{ cm}$ c) $9\sqrt{3} - \frac{9}{\sqrt{3}} \text{ cm}$	1 1 1	3
6	a) <div style="text-align: center; margin: 10px 0;"> <p style="text-align: center;">40 m</p> </div> b) If the height of the building is taken as x metres , <p style="margin-left: 40px;">Distance between Manu and the building = x metres</p> <p style="margin-left: 40px;">Distance between Nandu and the building = $x\sqrt{3}$ metres</p> <p style="margin-left: 40px;">$x + x\sqrt{3} = 40 \implies \frac{40}{1 + \sqrt{3}} \text{ m}$</p>	1 1 1 1	4

