

WANDOOR GANITHAM - S S L C UNIT TEST 2021

10.9AE

GEOMETRY AND ALGEBRA – ANSWER KEY

Qn no.	Key	Score	
1	<p>a) $\frac{7-2}{5-1} = \frac{5}{4}$</p> <p>b) (9,12) or (13,17) or (17,22) ...</p>	1 1	2
2	<p>a) $(\frac{1+7}{2}, \frac{7+3}{2}) = (4,5)$</p> <p>b) (2,2)</p>	1 1	2
3	<p>a) $(\frac{4+2}{2}, \frac{5+1}{2}) = (3,3)$</p> <p>b) $(5+3-2, 2+3-1) = (6,4)$</p> <p>c) $(5+6-3, 2+4-3) = (8,3)$</p>	1 1 1	3
4	<p>a) $\frac{9-5}{3-1} = 2$</p> <p>b) Slope of the line QR = $\frac{17-9}{7-3} = 2$</p> <p style="padding-left: 20px;">Since the slopes are equal , P,Q,R on the same line .</p> <p>c) Slope of the line joining the points (3 , 9) , (9 , 11) = $\frac{11-9}{9-3} = \frac{2}{6}$</p> <p style="padding-left: 20px;">Since the slopes are not equal , the points are not on the same line .</p> <p style="padding-left: 20px;">That is they are the vertices of a triangle .</p>	1 1 1	3

