WANDOOR GANITHAM - S S L C UNIT TEST 2021

3.04AE	Ľ	Score : 20 40 minutes
1. a) Which numb	per is to be added to $x^2 + 12 x$ to get a perfect square ?	
b) Find the natu	ural number value of x from the equation $x^2 + 12 x = 64$?	(3)
2.1 added to the	product of two consecutive odd numbers gives 256 .	
a)Write down a	a second degree equation by taking the smaller number as $oldsymbol{x}$	
b) What are the	e numbers ?	(3)
3. When each side	e of a square was increased by $3 $ metres , the area became 400) square -
metres.		
a) Write down a	a second degree equation by taking the side of the original squa	re as x
b) What was the	e length of a side of the original square ?	(3)
4. 9 added to the	product of two consecutive multiples of 6 gives 225.	
a) Write down a	a second degree equation by taking the smaller multiple as $oldsymbol{x}$	
b) What are the	numbers ?	(3)
5. The longer side	of a rectangle is 4 centimetres more than its shorter side . The	e area of
the rectangle is	320 square centimetres .	
a) Write down a	a second degree equation by taking the shorter side as x	
b) What are the	lengths of its the sides ?	(4)
6. The perimeter of	of a rectangle is 40 centimetres and its area is 96 square cent	imetres .
a) What is the su	um of the lengths of the longer and the shorter sides of the rec	tangle ?
b)Write down a	second degree equation by taking the length of the longer side	a a s 10 + x
c) What are the	lengths of its the sides ?	(4)