

# WANDOOR GANITHAM - S S L C UNIT TEST 2021

**3.04BE**

## SECOND DEGREE EQUATIONS -ANSWER KEY

Qn no.	Key	Score	
<b>1</b>	<b>a)</b> $9^2=81$	<b>1</b>	<b>3</b>
	<b>b)</b> $(x-9)^2=225$	<b>1</b>	
	$x=15+9=24$	<b>1</b>	
<b>2</b>	<b>a)</b> $x^2+2x+1=289$	<b>1</b>	<b>3</b>
	<b>b)</b> $x+1=\pm 17$	<b>1</b>	
	$16, 18$	<b>1</b>	
<b>3</b>	<b>a)</b> $(x-4)^2=900$	<b>1</b>	<b>3</b>
	<b>b)</b> $x-4=\pm 30$	<b>1</b>	
	$34$	<b>1</b>	
<b>4</b>	<b>a)</b> $x^2-10x=144$	<b>1</b>	<b>3</b>
	<b>b)</b> $x-5=\pm 13$	<b>1</b>	
	$18$	<b>1</b>	
<b>5</b>	<b>a)</b> $x^2-6x=315$	<b>1</b>	<b>4</b>
	<b>b)</b> $x^2-6x+3^2=315+3^2$	<b>1</b>	
	<b>c)</b> $x-3=\pm 18$	<b>1</b>	
	$21, 15$	<b>1</b>	
<b>6</b>	<b>a)</b> $\frac{28}{2}=14$	<b>1</b>	<b>4</b>
	<b>b)</b> $(7+x)^2+(7-x)^2=100$	<b>1</b>	
	<b>c)</b> $x=\pm 1$	<b>1</b>	
	$6, 8$	<b>1</b>	