

1.	(a)	$8 = k(2)^2$	I	<i>substitution</i>	
		$k = 2$	I		[2 marks]
	(b)	$y = (x - 3)^2 \dots \dots \dots$	I		
		$\dots \dots \dots + 2.$	I		[2 marks]
2.	(a)	$x$ -axis intercepts    4 and -2	I		
		$y$ -axis intercept $(0, -8)$	I		
		T. P. $(1, -9)$	I		
		Minimum	I		
	(b)	$y$ -axis intercept $(0, 28)$	I		
		T. P. $(5, 3)$	I		
		Minimum	I		[7 marks]
3.	(a)	$(-\frac{1}{2}, \dots \dots \dots)$	I		
		$\dots \dots \dots 3)$	I		
		Maximum	I		
	(b)	$x = -\frac{1}{2}$	I		[4 marks]

**Total: 15 marks**