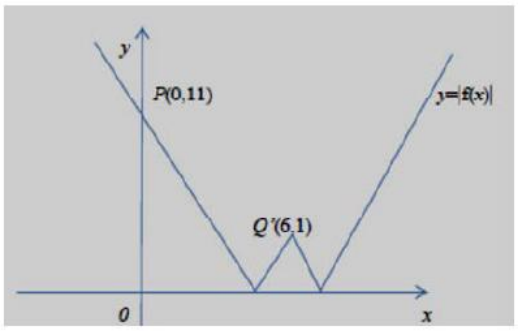
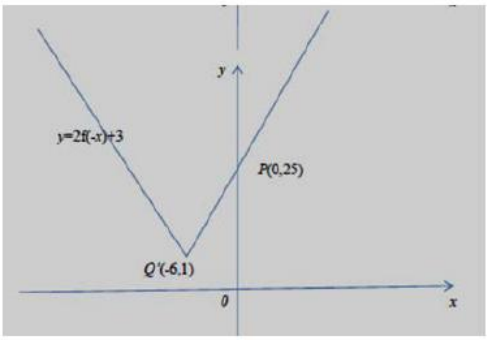
Daily Question

Day 6 Pure Mathematics – Mark Scheme

Question 1

(a)		'W' Shape (0, 11) and (6, 1)	B1 B1 (2)
b)		'V' shape (-6,1) (0,25)	B1 B1 B1 (3)
c)	One of $a = 2$ or $b = 6$ $a = 2$ and $b = 6$		B1 B1 (2) **(7 marks)**

Question 2

5(a)	Either $k > 13$ or $k = 3$ Both $k > 13$ $k = 3$		B1 B1 **(2)**
(b)	Smaller solution: $2(5-x)+3=\frac{1}{2}x+10 \Rightarrow x=\frac{6}{5}$ Larger solution: $-2(5-x)+3=\frac{1}{2}x+10 \Rightarrow x=\frac{34}{3}$		M1 A1 M1 A1 **(4)**
(c)	$(6,12)$		B1B1 **(2)** **(8 marks)**