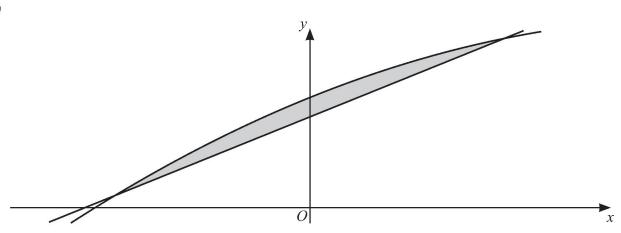


7	(a)	By expressing $-2x^2 + 8x + 11$ in the form $-a(x-b)^2 + c$, where a, b and c are positive integers		
		find the coordinates of the vertex of the graph with equation $y = -2x^2 + 8x + 11$. [3]		

(b)



The diagram shows part of the curve with equation $y = -2x^2 + 8x + 11$ and the line with equation y = 8x + 9.

Find the area of the shaded region.	[5]
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