By expressing $-2x^2 + 8x + 11$ in the form $-a(x-b)^2 + c$ , where a, b and c are p find the coordinates of the vertex of the graph with equation $y = -2x^2 + 8x + 11$ .	ositive integers, [3]
у,	
0	X
The diagram shows part of the curve with equation $y = -2x^2 + 8x + 11$ and the lin $y = 8x + 9$ . Find the area of the shaded region.	ne with equation
	By expressing $-2x^2 + 8x + 11$ in the form $-a(x-b)^2 + c$ , where $a$ , $b$ and $c$ are pfind the coordinates of the vertex of the graph with equation $y = -2x^2 + 8x + 11$ .  O  The diagram shows part of the curve with equation $y = -2x^2 + 8x + 11$ and the $\ln y = 8x + 9$ .