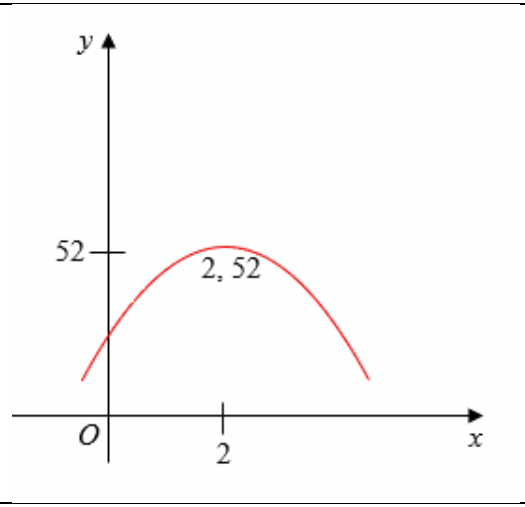
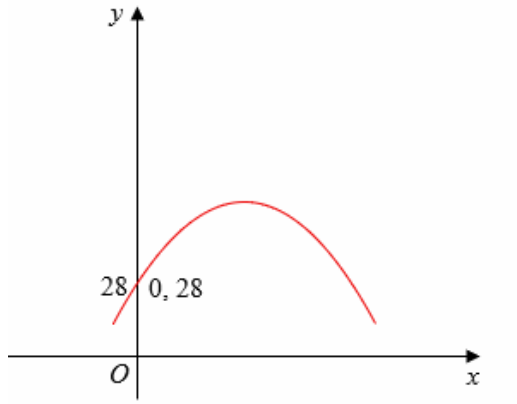
Question	Working	Answer	Mark	Notes
25 (a)	$\pm 6\left(x \pm \frac{4}{2}\right)^2$ ..... or $\pm 6(x \pm 2)^2$ ..... **or** $\pm 6\left[(x \pm 2)^2 .....\right]$ or $\pm 6\left[\left(x \pm \frac{4}{2}\right)^2 .....\right]$ **or** $\pm 6\left(x \pm \frac{24}{2\times -6}\right)^2$		3	M1 for a start to completing the square **or** correct substitution into $a\left(x+\frac{b}{2a}\right)^2 +$.... from the formula $a\left(x+\frac{b}{2a}\right)^2 - \frac{(b)^2}{4a} + c$
	$-6\left[\left(x-\frac{4}{2}\right)^2 - \left(\frac{4}{2}\right)^2\right]$..... or $-6\left[(x-2)^2 - 2^2\right]$..... **or** $-6\left[\left(x-\frac{4}{2}\right)^2 - \left(\frac{4}{2}\right)^2 .....\right]$ or $-6\left[(x-2)^2 - 2^2.....\right]$ **or** $-6\left(x+\frac{24}{2\times -6}\right)^2 - \frac{24^2}{4\times -6}$.....			M1 for correctly completing the square but terms do not need to be simplified and 28 may or may not be present or correct simplification of the first two parts of $a\left(x+\frac{b}{2a}\right)^2 - \frac{(b)^2}{4a}(+c)$ **NB: Please refer to ALT mark scheme after (b) for comparison of coefficients method**
	Working not required, so correct answer scores full marks (unless from obvious incorrect working)	$52-6(x-2)^2$		A1 oe eg $-6(x-2)^2+52$
25(a) **ALT**	$-bx^2 + 2bcx - bc^2 + a$ **and** $b = 6$ or $b = -6$		3	M1 for multiplying out $a - b(x-c)^2$ **and** $b = 6$ or $b = -6$
	$2bc = 24$ or $-bc^2 + a = 28$			M1 for equating coefficients
	Working not required, so correct answer scores full marks (unless from obvious incorrect working)	$52-6(x-2)^2$		A1 oe eg $-6(x-2)^2+52$

(b)		'∩' or 'U' shaped symmetrical quadratic curve	3	B1	for drawing a '∩' or 'U' shaped symmetrical quadratic curve with the turning point in any quadrant
		Turning point marked as (2, 52)		B1	for drawing a '∩' shaped symmetrical quadratic curve in the correct quadrant with a turning point at (2, 52)
		Intersection with *y*-axis marked as (0, 28) or crossing at 28 marked		B1	for drawing a '∩' shaped symmetrical quadratic curve in the correct quadrant with an intersection on the *y*-axis marked as (0, 28) or marked as 28 on the *y*-axis
					Total 6 marks