

4(a)	$y = (x+2)^2 + 3$	[1]
	x = -2, $y = 3$	[1]
4(b)	$y = 3(x^2 + 12x + 33)$	[1]
	$= 3[(x+6)^2 - 3] = 3(x+6)^2 - 9$	[1]
	x = -6 , $y = -9$	[1]
4(c)	$y = 2\left(x^2 + \frac{7}{2}x - 5\right)$	[1]
	$= 2\left[\left(x + \frac{7}{4}\right)^2 - \frac{129}{16}\right] = 2\left(x + \frac{7}{4}\right)^2 - \frac{129}{8}$	[1]
	$x = -\frac{7}{4}$, $y = -\frac{129}{8}$	[1]

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