Question	Answer	Marks	Guidance
1(a)	$y = -\frac{1}{2}x + 25$ isw	**3**	**M1** for $m = \frac{29-23}{-8-4}$ oe or $-\frac{1}{2}$ and **M1 FT** for $\frac{y-23}{x-4} = their\left(-\frac{1}{2}\right)$ oe or $y = their\left(-\frac{1}{2}\right)\ x + c$ and $23 = -\frac{1}{2} \times 4 + c$ oe **OR** **M1** for solving $23 = 4m + c$ $29 = -8m + c$ for $m = -\frac{1}{2}$ or $c = 25$ and **M1 FT** for correctly using *their m* or *their c* to find *c* or *m*
	Solves *their* linear equation simultaneously with $y = 2x + 5$ to find x or y	**M1**	**FT** *their* $y = -\frac{1}{2}x + 25$ oe
	(8, 21)	**A1**	
1(b)	$\sqrt{8^2 + 21^2}$ oe	**M1**	**FT** *their* (8, 21)
	$\sqrt{505}$ isw or 22.5 or 22.47[22…] rot to 2 or more dp	**A1**	
2	$x^2 + 2kx = -2x - 6k - 1$	**M1**	
	$x^2 + (2k+2)x + 6k + 1[= 0]$	**A1**	
	Correctly uses $b^2 - 4ac$ [*0] for *their* equation $(2k + 2)^2 - 4(6k + 1)$ [*0]	**M1**	where * is any inequality sign or =; **FT** *their* 3-term quadratic in x and k
	$4k^2 - 16k$ [*0] nfww	**A1**	
	$k = 4$	**A1**	**dep** on all previous marks awarded