	Question		Answer	Marks	AO	Guidance
7			Line through $(4, 5)$ and $(6, -1)$ has gradient $\frac{-1-5}{6-4} = -3$ So the equation is $y = 17 - 3x$	**M1**	**3.1a**	Attempt to find equation of the line using correct gradient formula
			Points of intersection when $2x^2 - 7x + 1 = 17 - 3x$	**M1**	**1.1a**	Eliminating one variable
			$2x^2 - 4x - 16 = 0$	**M1**	**1.1b**	oe Three term quadratic seen or implied by correct x-values
			$x = -2, 4$	**A1**	**1.1b**	cao
			when $x = 4, y = 5$ when $x = -2, y = 23$	**A1**	**1.1b**	Both y-coordinates seen.
			distance between $(4, 5)$ and $(-2, 23)$ $\sqrt{(-2-4)^2 + (23-5)^2}$	**M1**	**1.1a**	Uses distance formula for their points (not given points)
			$= 6\sqrt{10}$	**A1**	**1.1b**	Must be exact (allow $\sqrt{360}$ oe)
				[7]		