Question		Answer	Marks	AO	Guidance
8		$(4k)^2 - 4 \times 2 \times k$ **seen**	**B1**	**3.1a**	May be embedded in quadratic formula or in an equality do not condone invisible brackets unless recovered
		$16k^2 - 8k = 0$	**M1**	**1.1**	Attempting to solve their discriminant = 0 (or > 0 or ≥ 0) Allow slip in one coefficient if discriminant is seen before inequality/equation formed. Do not condone < 0 or ≤ 0 Can be implied by correct k **www**
		$k = 0$ and $k = \frac{1}{2}$ only **seen**	**A1**	**1.1**	both correct condone a different variable for this mark.
		$\{k: k < 0\} \cup \left\{k: k > \frac{1}{2}\right\}$ oe	**A1FT**	**2.5**	Accept correct interval notation eg. $(-\infty, 0) \cup (0.5, \infty)$ Condone $\left\{k: k < 0 \cup k > \frac{1}{2}\right\}$ or $\left\{k: k < 0 \text{ or } k > \frac{1}{2}\right\}$ **FT** their values of k must be in terms of k and not eg x must be two separate intervals
			[4]		