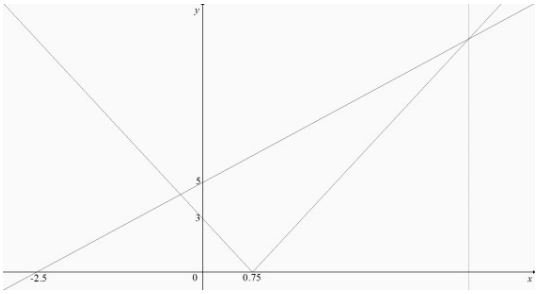
Question	Answer	Marks	Guidance
1(a)		**3**	**B1** for a V shaped graph with a vertex on the positive x-axis. **B1** for 0.75 and 3 marked correctly and **dependent** on first B1 **B1** for a straight line passing through -2.5 and 5 marked correctly, axis with a gradient such that there are two points of intersection. The second point of intersection may be implied.
1(b)	$4x-3<2x+5$ so $x<4$	**B1**	
	$2x+5>-4x+3$ so $x>-\frac{1}{3}$	**B1**	**nfww**
	$-\frac{1}{3}<x<4$	**B1**	Dependent on both B1 **SC2** for the values $-\frac{1}{3}$ and 4 without any or with wrong inequality signs **nfww**
	Alternative		
	$3x^2-11x-4<0$ or = 0	**(M1)**	For squaring each side of the inequality and forming a 3-term quadratic. Allow multiples.
	$-\frac{1}{3}$, 4	**(A1)**	Critical values
	$-\frac{1}{3}<x<4$	**(A1)**	
2	Mid-point $\left(\frac{3}{2},-\frac{5}{6}\right)$	**B1**	Do not allow if unsimplified
	Gradient $=-\frac{1}{3}$	**B1**	Allow unsimplified
	$k+\frac{5}{6}=3\times\left(2-\frac{3}{2}\right)$ oe	**M1**	For attempt at perpendicular bisector **Must** be with *their* perpendicular gradient and *their* mid-point
	$k=\frac{2}{3}$	**A1**	