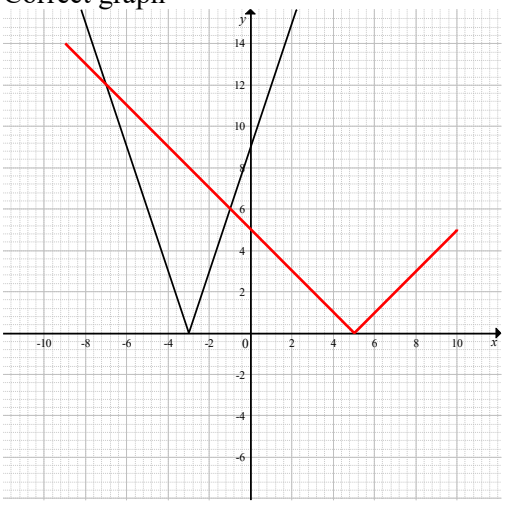
Question	Answer	Marks	Partial Marks
1(b)	Correct graph  AND $-7 \leqslant x \leqslant -1$	**3**	**B1** for correct graph and **B2 dep** for $-7 \leqslant x \leqslant -1$; dependent on a correct graph for $-7 \leqslant x \leqslant -1$ or **B1 STRICT FT** for *their* critical values from the two intersections of *their* straight-line section of graph providing it has negative gradient
2	$\dfrac{7\sqrt{2}x^6\left(3-\sqrt{2}\right)}{\left(3+\sqrt{2}\right)\left(3-\sqrt{2}\right)}$	**M2**	**M1** for $7\sqrt{2}x^6$ or $\dfrac{\sqrt{98x^{12}}\left(3-\sqrt{2}\right)}{\left(3+\sqrt{2}\right)\left(3-\sqrt{2}\right)}$ or $\dfrac{\sqrt{98}x^6\left(3-\sqrt{2}\right)}{\left(3+\sqrt{2}\right)\left(3-\sqrt{2}\right)}$ or $\dfrac{\textit{their}\,7\sqrt{2}x^6\left(3-\sqrt{2}\right)}{\left(3+\sqrt{2}\right)\left(3-\sqrt{2}\right)}$
	$\dfrac{21\sqrt{2}x^6-14x^6}{9-2}$ or $\dfrac{7x^6(3\sqrt{2}-2)}{9-2}$ oe	**A1**	
	$(3\sqrt{2}-2)x^6$	**A1**	
	Alternative method		
	$\dfrac{\sqrt{98x^{12}}}{3+\sqrt{2}}\times\dfrac{3-\sqrt{2}}{3-\sqrt{2}}$ or $\dfrac{\sqrt{98}x^6}{3+\sqrt{2}}\times\dfrac{3-\sqrt{2}}{3-\sqrt{2}}$	**(M1)**	
	$\dfrac{3\sqrt{98x^{12}}-\sqrt{196x^{12}}}{9-2}$ or $\dfrac{3\sqrt{98}x^6-\sqrt{196}x^6}{9-2}$	**(M1)**	
	$\dfrac{3\sqrt{98x^{12}}-\sqrt{196x^{12}}}{\sqrt{49}}$ or $\dfrac{3\times7\sqrt{2}x^6-14x^6}{7}$ oe	**(A1)**	
	$(3\sqrt{2}-2)x^6$	**(A1)**	