21	(a)	$3x^2$ or $-2\times 2x$ or $-4x$ or -9 oe		2	M1	for differentiating one term correctly
			$3x^2-4x-9$		A1	for a correct expression Allow $3x^2-2\times 2x-9$
	(b)	$(x=)\dfrac{4\pm\sqrt{(-4)^2-(4\times 3\times -9)}}{2\times 3}$ **or** $3\left[\left(x-\dfrac{2}{3}\right)^2-\left(\dfrac{2}{3}\right)^2\right]-9(=0)$		4	M1	for finding the critical values for a 3-term quadratic using any correct method - if using formula or completing the square allow one sign error and some simplification – allow as far as eg $\dfrac{4\pm\sqrt{16+108}}{6}$ oe **or** eg $3\left(x-\dfrac{2}{3}\right)^2-10\dfrac{1}{3}$ oe)
			−1.19 and 2.52		A1	for critical values of −1.19 **and** 2.52 or better (for this A1 mark allow –1.2 or –1.18 **and** 2.5 **or** $\dfrac{2\pm\sqrt{31}}{3}$ oe)
			$x<-1.19$		A1	awrt −1.19
			$x>2.52$		A1	awrt 2.52
						Total 6 marks