23	$3t^2 - 2\times 4t + 5$ or $3t^2 - 8t + 5$		6	M1 for differentiation of *s* with 2 out of 3 terms correct (can be implied by subsequent working)
	$3t^2 - 2\times 4t + 5 = 0$ or $3t^2 - 8t + 5 = 0$			M1 (dep on previous M1) for equating at least a 2TQ to zero (allow inequality signs), E.g. $3t^2 - 8t = 0$ or $3t^2 + 5 = 0$ (can be implied by subsequent working)
	$(t =)\frac{5}{3}$ oe $(\text{and } t = 1)$			A1 for $\frac{5}{3}$ (and *t* = 1 may be crossed out or absent) (allow $\frac{5}{3}$ = 1.6(66666) to 2 sf truncated or rounded)
	$2t - 4 = 0$			M1 for differentiation of *x* to find $at + b = 0$ (allow inequality signs) where a = 2 and b = −4
	$(t =)2$			A1 for a correct value of *t*
		$(1<)t < \frac{5}{3}$ **and** $t > 2$		A1 oe $(t > 1)$ $t < \frac{5}{3}$ and $t > 2$
				Total 6 marks