

Question number	Scheme	Marks
1	$b^2 - 4ac \geq 0 \Rightarrow (5k)^2 - 4(2k)(5k - 3) [\geq 0]$	M1
	$[-15k^2 + 24k] \Rightarrow 3k(-5k + 8)$	M1
	$'0' < k \leq \frac{8}{5}$	M1
	$0 < k \leq \frac{8}{5}$	A1 (4)
Total 4 marks		

Mark	Notes
<b>M1</b>	For correct substitution of $a$ , $b$ and $c$ into $b^2 - 4ac$ Allow with any inequality, equals or even no sign at all.
<b>M1</b>	For solving their quadratic equation using any valid method, (provided the QE is either a 2TQ or a 3TQ). They must reach <b>TWO</b> critical values for the award of this mark.  See General Guidance for the definition of a valid attempt to solve a QE If they use a calculator, then the Quadratic equation and the two critical values must be correct for the award of this mark.
<b>M1</b>	For forming an 'inside' region with <b>their</b> critical values. Allow use of either $<$ or $\leq$ here $'0' < k \leq \frac{8}{5}$ Allow for example $'0' \leq k \leq \frac{8}{5}$
<b>A1</b>	For $0 < k \leq \frac{8}{5}$ allow $0 < k < \frac{8}{5}$