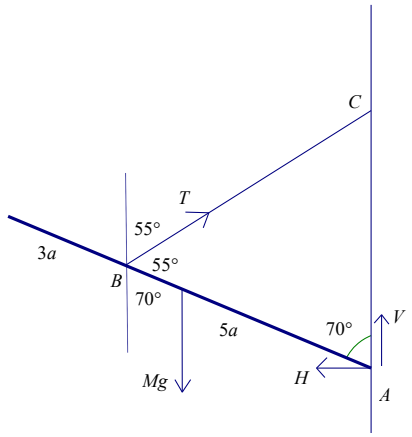
5a			
	Moments about A:	M1	Need all terms and dimensionally correct. Condone sign errors, incorrect angles and sin/cos confusion Or complete method to form equation in T (and M).
	$5a \times T\sin 55° = 4a\cos 20° \times Mg$	A1	Correct unsimplified equation in T (and M).
	$T = \dfrac{4\cos 20°}{5\sin 55°} Mg \left(= 0.918Mg\right)$	A1	Or equivalent (Exact or $0.92Mg$ or better)
		(3)	
5b	Resolve vertically	M1	Need all terms. Condone sign errors, incorrect angle and sin/cos confusion
	$\updownarrow: Mg = V + T\cos 55°$ $\left(V = 0.47...Mg\right)$	A1	Correct unsimplified equation in T or their T
	Resolve horizontally	M1	Condone consistent sin/cos confusion
	$H = T\sin 55°$ $\left(H = 0.75...Mg\right)$	A1	Correct unsimplified equation in T or their T
	Resultant $\lambda = \sqrt{\left(0.4736..\right)^2 + \left(0.7517..\right)^2}$	M1	Substitute for T and use Pythagoras
	$= 0.89$	A1	The Q asks for 2 sf
		(6)	
			See over for further alternative

5b alt	Moments about B	M1	Dimensionally correct. Need all terms. Condone sign errors and sin/cos confusion
	$Mga\cos 20° + 5aH\cos 70° = 5aV\cos 20°$	A1	Correct unsimplified equation
	Moments about C	M1	Dimensionally correct. Condone sign errors and sin/cos confusion
	$5aH = 4aMg\cos 20°$	A1	Correct unsimplified equation
	Resultant $\lambda = \sqrt{(0.4736..)^2 + (0.7517..)^2}$	M1	Use Pythagoras
	$= 0.89$	A1	The Q asks for 2 sf
	M1A1M1A1 for 2 independent equations M1A1 to solve for λ		