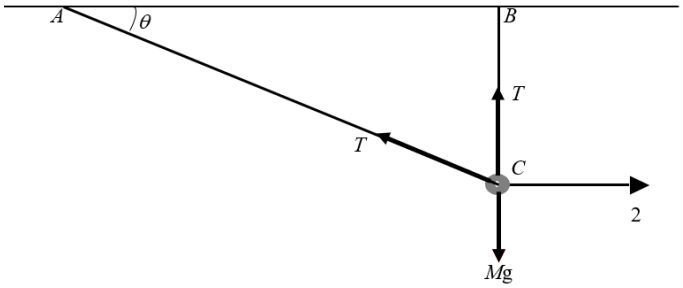
QUESTION NUMBER	SCHEME	MARKS
1		
(a)	Horiz: $2 = T\cos\theta$	M1 A1
	T = 2.5	A1
		(3)
(b)	Vert: $T + T\sin\theta = Mg$	M1 A1
	M = 0.41 or 0.408	A1
		(3)
		(6)
	Notes for question 1	
	N.B. If they have different tensions, they can score all the marks in (a) but nothing in (b). If they have 2= $T\cos(\frac{4}{5})$ or similar and never recover, allow M1A0.	
(a) **M1** **A1** **A1**	 Horizontal equilibrium. Correct no. of terms, dimensionally correct, condone sin/cos confusion. Correct unsimplified equation. Correct answer. (ignore units)	
(b) **M1** **A1** **A1**	 Vertical equilibrium. Correct no. of terms, dimensionally correct, condone sin/cos confusion and missing g, to give an equation which must include M. Correct unsimplified equation Correct answer. (ignore units)	