

Question Number	Scheme	Marks
3(a)	$R = 10g \cos \alpha$	M1
	$= 78.4 \text{ or } 78 \text{ (N)}$	A1
		(2)
(b)	$F = 0.5R$	B1
	$P = 10g \sin \alpha + F$	M1A1
	$= 98$	A1
		(4)
(c)	$P = 10g \sin \alpha - F$	M1
	$= 19.6 \text{ or } 20$	A1
		(2)
		(8)
	Notes for Question 3	
3(a)	M1 Allow sin/cos confusion	
	A1 Correct answer. Allow 8g.	
3(b)	B1 $F = 0.5R$ seen anywhere	
	M1 Correct number of terms, with 10g resolved	
	A1 Correct equation or inequality	
	A1 Correct answer. Allow 10g.	
	For any inequality which never becomes an equation, usual rules: Max M1A1A0 for $P \leq 10g \sin \alpha + F$	
3(c)	M1 Correct number of terms, with 10g resolved	
	A1 Correct answer. Allow 2g	
	For any inequality which never becomes an equation, usual rules: Max M1A0	