

Question Number	Scheme	Marks
<b>3(a)</b>	$R = 10g \cos \alpha$ = 78.4 or 78 (N)	M1 A1 (2)
<b>(b)</b>	$F = 0.5R$ $P = 10g \sin \alpha + F$ = 98	B1 M1A1 A1 (4)
<b>(c)</b>	$P = 10g \sin \alpha - F$ = 19.6 or 20	M1 A1 (2) (8)
<b>Notes for Question 3</b>		
<b>3(a)</b>	M1 Allow sin/cos confusion A1 Correct answer. Allow 8g.	
<b>3(b)</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 $P \leq 10g \sin \alpha + F$	
<b>3(c)</b>	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	