Question	Answer	Marks	Guidance
	For attempt at resolving horizontally or vertically	M1	Allow sin/cos mix. Allow sign error. Allow <i>g</i> missing. Correct number of terms.
	$R = 300g - 0.28X$ or $R = 300g - X\sin 16.3$	A1	$\alpha = 16.26$
	$0.96X - F = 0 \text{ or } 0.96X - 0.5(300g - X\sin\alpha) = 0$ Or $X\cos 16.3 - F = 0 \text{ or } X\cos 16.3 - 0.5(300g - X\sin\alpha) = 0$	A1	Or using their F
	Use of $F = 0.5R$	M1	Use to get an equation in $X$ only. Allow sin/cos mix. Allow sign error. Allow $g$ missing.  Must be from 2 term $R$ , which is a linear combination of $300(g)$ and a component of $X$
	X = 1360 [1363.63]	A1	
		5	