

Question	Answer	Marks	Guidance
(a)	Attempt to resolve vertically or horizontally	<b>M1</b>	Correct number of terms.
	$G \sin 60^\circ + 2F \sin 40^\circ - 10 = 0$	<b>A1</b>	Correct resolution vertically.
	$F + G \cos 60^\circ - 2F \cos 40^\circ = 0$	<b>A1</b>	Correct resolution horizontally.
	Attempt to solve simultaneously for $F$ or $G$	<b>M1</b>	From equations with 3 relevant terms in each
	$F = 4.53, G = 4.82$	<b>A1</b>	For both correct.
		<b>5</b>	
(b)	$G \sin 60^\circ + 2 \times 3 \sin 40^\circ - 10 = 0$	<b>M1</b>	Resolve forces parallel to the 10 N force and equate this expression to zero, 3 terms.
	$G = 7.09$ to 3 sf	<b>A1</b>	
		<b>2</b>	