9	**(a)**		Attempt resolution of forces Horizontal component $= 5 + 2\cos 40\ (= 6.5321)$ Vertical component $= 2\sin 40\ (= 1.2856)$ $\sqrt{6.5321^2 + 1.2856^2} = 6.66\,\text{N}$	**M1** **A1** **A1** **[3]**	**1.1a** **1.1** **1.1**	Allow sin/cos confusion Allow for either the horizontal or vertical component correct Use correct method for magnitude	**OR** **M1** Form triangle of forces **A1** Use cosine rule with 140° **A1** Obtain 6.66 N
9	**(b)**		$\tan^{-1}\left(\dfrac{2\sin 40}{5 + 2\cos 40}\right) = 11.1^\circ$	**B1FT** **[1]**	**1.1**	**FT** their components from part (i)	