about O . The points A and B are on the circle, at opposite ends of a diameter, and such that C an acute angle α with the upward vertical through O . The speed of P as it passes through A i The tension in the string when P is at B is four times the tension in the string when P is at A		
(i) Show that $\cos \alpha = \frac{3}{4}$.		

© UCLES 2019 9231/23/M/J/19

		•••••
		•••••
		•••••
		•••••
		•••••
(ii)	Find the tension in the string when P is at B .	[2]