Ĭ	eing swung around in a vertical circle on a string.	(12 m
	For copyright reasons this image cannot be reproduced in the online version of document, but may be viewed at the link listed on the acknowledgements por	
ln	the table below, match the statements with A, B, C and/or D.	(4 m
	Statement	A, B, C and/
p	oint(s) where the centripetal acceleration is the greatest	
p	oint(s) where the tension in the string is the lowest	
p	oint(s) where the net force is not toward the centre of the circle	le:
р	oint(s) where the ball's weight force is perpendicular to the tension	
or Ca	ite an expression for the net force acting on the string at point C in ce and the tension in the string. Iculate how fast the 500 g ball can be moving at point A for the 1.2 break, if the maximum tension it can withstand at point A is 172 N.	(1 i

(d) Calculate the maximum speed at which the ball can be moving at point C for the string not to break at point A. (3 marks)