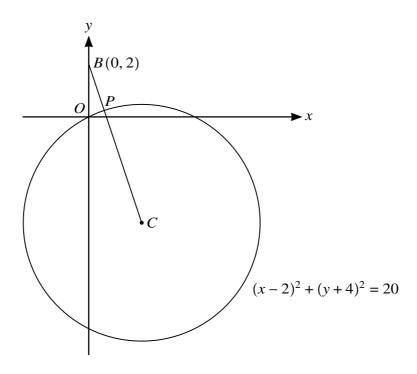
(a)



The diagram shows the circle with equation $(x-2)^2 + (y+4)^2 = 20$ and with centre C. The point B has coordinates (0, 2) and the line segment BC intersects the circle at P.

Find the equation of BC .	[2]

Hence find the coordinates of P , giving your answer in exact form.	[5
	•••••