



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 .

- (a) Find the equation of BC .

[2]

[illegible]

(b) Hence find the coordinates of P , giving your answer in exact form.

[5]

[illegible]