



The diagram shows the circle with centre $C(-4, 5)$ and radius $\sqrt{20}$ units. The circle intersects the y -axis at the points A and B . The size of angle ACB is θ radians.

- (a) Find the equation of the tangent to the circle at the point $(-6, 9)$. [3]

.....

.....

.....

.....

.....

.....

.....

.....

- (b) Find the equation of the circle in the form $x^2 + y^2 + ax + by + c = 0$. [2]

.....

.....

.....

.....

.....

.....

.....

.....

