

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.

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Find the equation	on of the circle	in the form $x^2 + y^2$	$a^2 + ax + by + c = 0$	0.		
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Find the equation	on of the circle	in the form $x^2 + y^2$	$c^2 + ax + by + c = 0$	0.		
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Find the equation	on of the circle	in the form $x^2 + y^2$	$c^2 + ax + by + c = 0$	0.		

ring the value	of θ correct to	4 significant figur	res.	
Find the perin	neter and area of	the segment shace	led in the diagram	