GPE-A1a

Practice Assessment

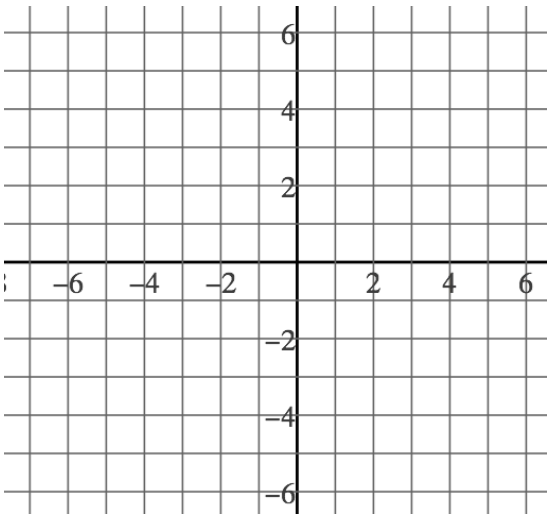
1. Write the equation of a circle where $(-9,14)$ and $(-5,-6)$ are endpoints of a diameter.

2. Does the point $(3,\sqrt{5})$ lie on a circle with center $(2,0)$ and radius 3? Show the calculations that lead to your conclusion.

GPE-A1b

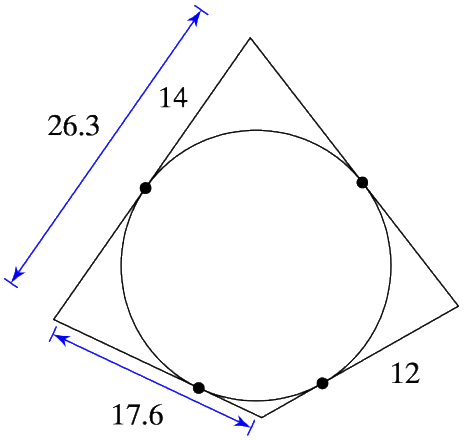
3. Find the center and radius of a circle whose equation is $x^2 - 8x + y^2 + 2y = -8$

4. Find the center and radius of a circle whose equation is $x^2 + 4x + y^2 - 6y = 3$. Then, sketch the circle onto the graph.

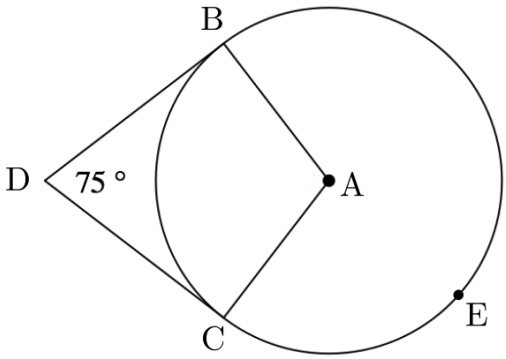


C-A2c

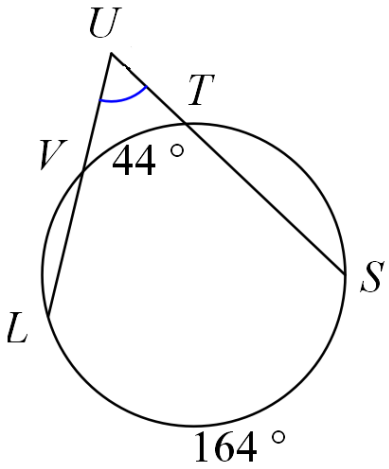
5. Drawn below is a circle with 4 tangent lines. Find the perimeter of the quadrilateral formed by the tangent lines.



6. DB and DC are tangent to circle A. Find the measures of $\angle A$ and $\overset{\frown}{CEB}$.

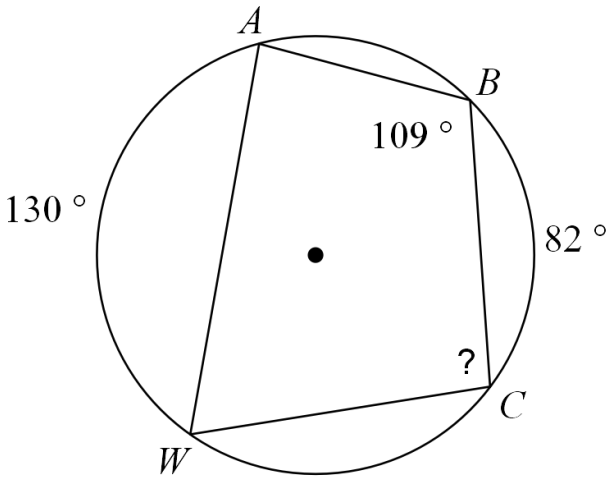


7. Find the measure of $\angle U$



C-A3a

8. Find the measure of $\angle C$



9. Find the measure of $\angle CAB$