

Answer on Question #64206 – Math – Analytic Geometry

Question

What is the radius of the circle if the center of the circle is C(-3,5) and the point P(5,11) is on the circle?

Solution

The radius of the circle is

$$\begin{aligned} R &= \sqrt{(x_C - x_P)^2 + (y_C - y_P)^2} = \sqrt{(-3 - 5)^2 + (5 - 11)^2} = \sqrt{64 + 36} = \\ &= \sqrt{100} = 10. \end{aligned}$$

Answer: R=10.