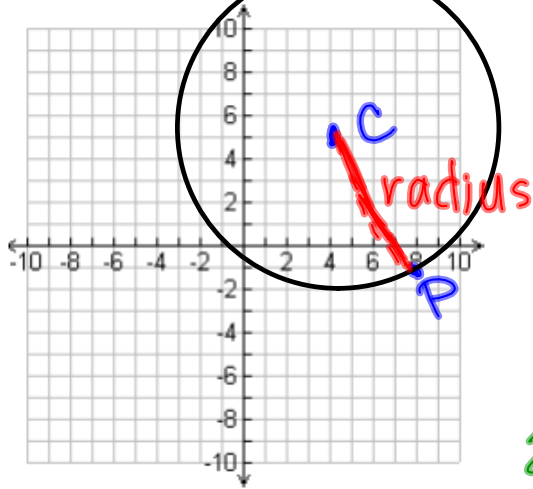


$$A = \pi r^2$$

4. Find the area of a circle in which the center is at (4, 5) and a point on the circle is at (8, -1)



1. radius?

$$\begin{aligned} r &= \sqrt{4^2 + 6^2} \\ &= \sqrt{16 + 36} \\ r &= \sqrt{52} \end{aligned}$$

2. $A = \pi r^2$

$$A = \pi (\sqrt{52})^2$$

$$A = 52\pi \text{ or } 163.36$$