

4. Find the equation of the circle whose center is $(4, 3)$ and that passes through the origin.

5. Find a point on the y -axis that is equidistant from the points $(2, 1)$ and $(4, -3)$.

6. Find the area of the region that lies outside the circle $(x - 1)^2 + y^2 = 1$ and inside the circle $(x - 2)^2 + y^2 = 4$. Sketch the graph of these circles.

