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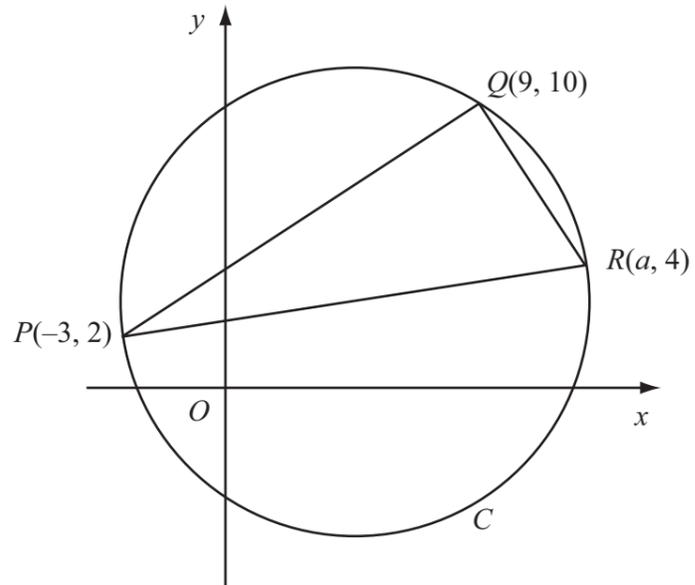


Figure 2

The points $P(-3, 2)$, $Q(9, 10)$ and $R(a, 4)$ lie on the circle C , as shown in Figure 2. Given that PR is a diameter of C ,

(a) show that $a = 13$, (3)

(b) find an equation for C . (5)



