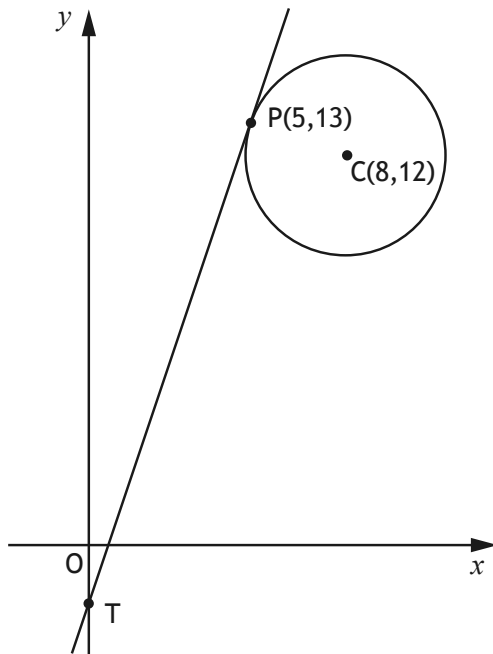


15. A circle has centre $C(8,12)$.

The point $P(5,13)$ lies on the circle as shown.



(a) Find the equation of the tangent at P.

3

The tangent from P meets the y -axis at the point T.

(b) (i) State the coordinates of T.

1

(ii) Find the equation of the circle that passes through the points C, P and T.

3