



The diagram shows the circle with equation $x^2 + y^2 - 6x + 4y - 27 = 0$ and the tangent to the circle at the point $P(5, 4)$.

- (a) The tangent to the circle at P meets the x -axis at A and the y -axis at B .

Find the area of triangle OAB , where O is the origin.

[5]

[illegible]

