

riguie 4

A circle with centre (9, -6) touches the *x*-axis as shown in Figure 4.

(a) Write down an equation for the circle.

A line l is parallel to the x-axis.

The line l cuts the circle at points P and Q.

Given that the distance PQ is 8

(b) find the two possible equations for *l*.

(4)

(3)