14. The circle *C* has equation

$$x^2 + y^2 - 6x + 10y + 9 = 0$$

(a) Find

- (i) the coordinates of the centre of C
- (ii) the radius of C

The line with equation y = kx, where k is a constant, cuts C at two distinct points.

(b) Find the range of values for *k*.

(6)