11. Circle C₁ has equation
$$(x-4)^2 + (y+2)^2 = 37$$
.
Circle C₂ has equation $x^2 + y^2 + 2x - 6y - 7 = 0$.

Circle
$$C_2$$
 has equation $x^2 + y^2 + 2x - 6y - 7 = 0$.

(a) Calculate the distance between the centres of
$$C_1$$
 and C_2 .