

Higher Maths
SQA 2019 Paper 1
Question 3



Circle C_1 has equation $x^2 + y^2 - 6x - 2y - 26 = 0$.

Circle C_2 has centre $(4, -2)$.

The radius of C_2 is equal to the radius of C_1 .

Find the equation of circle C_2 .

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Answer:

$$(x - 4)^2 + (y + 2)^2 = 36$$