Practice questions

Show your working. Try these without looking at the answers.

1. State the centre and radius of $(x - 2)^2 + (y + 1)^2 = 25$.

2. Find the centre and radius of $x^2 + y^2 - 4x + 6y - 12 = 0$.

3. Find the tangent to $x^2 + y^2 = 25$ at $(3, 4)$.