Perpendicular Lines and the equatio

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1) Perpendicular Lines and the equation of a tangent: Easier

7. A circle C has centre (2,5)
The point A (11, 8) lies on the circumference of the circle

Find the equation of the tangent to the circle at A

..... (5)

1) Perpendicular Lines and the equation of a tangent: Medium

8. A cirlce has the equation $x^2 + y^2 = 5$

a) Write down the centre of the circle

..... (1)

b) Write down the exact length of the radius of the circle

..... (1)

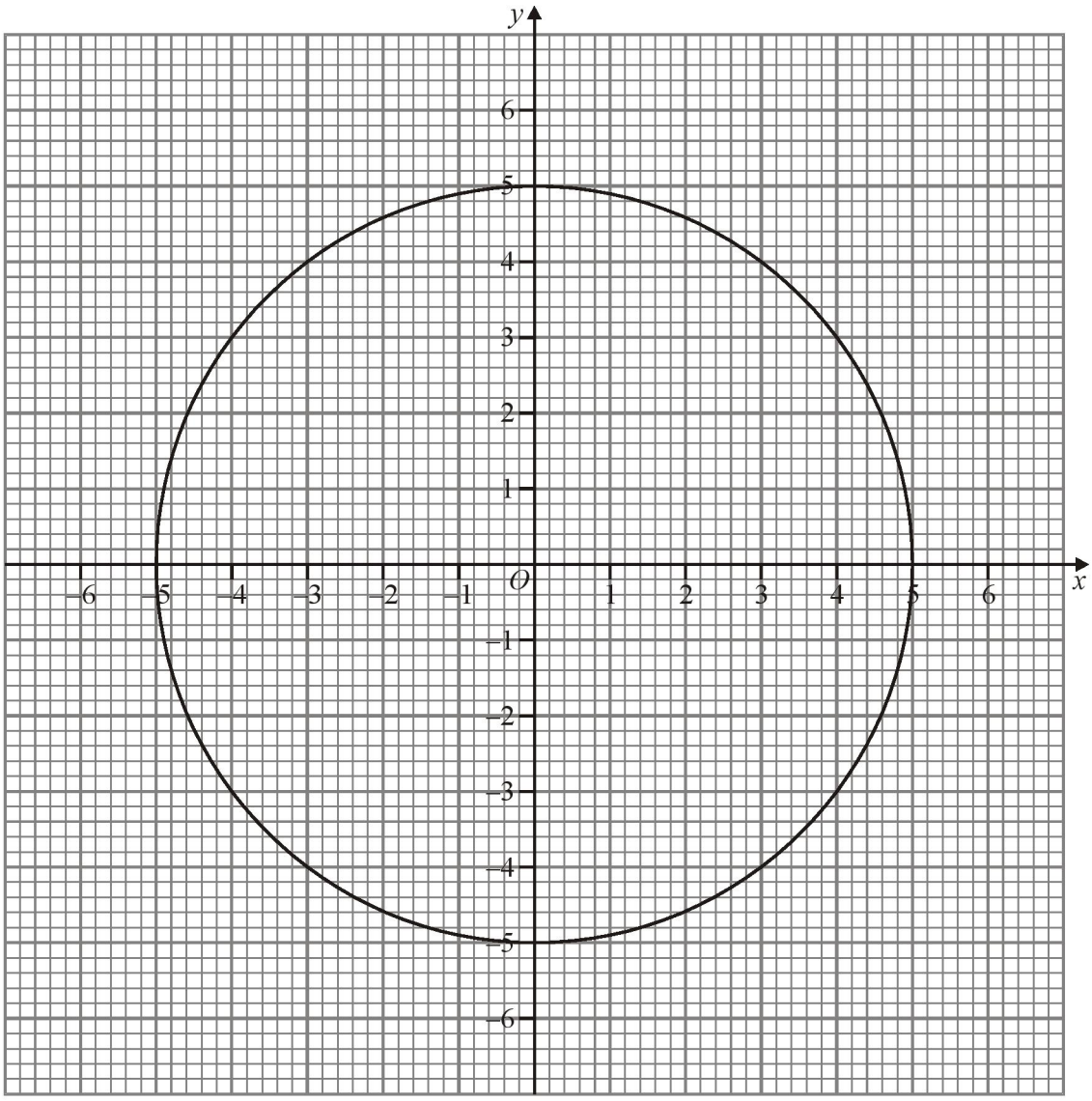
P is the point (1,2) on the cirlce $x^2 + y^2 = 5$

c) Work out the equation of the tangent to the circle at P

..... (4)

1) Perpendicular Lines and the equation of a tangent: Harder

9. The diagram shows a circle of radius 5 cm, centre the origin.



Find the equation of the tangent to the circle at (3,4)