

The diagram shows the circle with equation $(x-4)^2 + (y+1)^2 = 40$. Parallel tangents, each with gradient 1, touch the circle at points A and B.

(a)	Find the equation of the line AB, giving the answer in the form $y = mx + c$.	[3]
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Find the coordinates of A, giving each coordinate in surd form.	[4]
Find the equation of the tangent at A , giving the answer in the form y surd form.	c = mx + c, where c is in [2]

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