

The diagram shows a circle P with centre (0, 2) and radius 10 and the tangent to the circle at the point A with coordinates (6, 10). It also shows a second circle Q with centre at the point where this tangent meets the y-axis and with radius $\frac{5}{2}\sqrt{5}$.

| (a) | Write down the equation of circle P . | [1] |
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| (b) | Find the equation of the tangent to the circle P at A . | [2] |
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| | Find the equation of circle Q and hence verify that the y-coordinates of both of intersection of the two circles are 11. | r the por |
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