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| Q1 |  |  |
| Q2 | Centre (-4,5) and radius  | * Centre (-4,5)
 |
| Q3 | Proof | * Repeated root /

 hence tangency  |
| Q4 |  | = 0= RHS Hence lies on the circle |
| Q5 |  | * Centre big circle (10,12)
* Centre small circle (10,14)
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| Q6  | a)  |  |
|   | b)  |  |
|   | c)  |  |

Total 26