**The Equation of a Circle**

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| **Literacy**  Circle, diameter, radius,  midpoint, centre, circumference | **Research**  What is a Cartesian coordinate system? Where does the word Cartesian originate? | **Memory**  Standard form of the equation of circle centre and radius | |
| **Skills**   1. Find the equation of each circle: 2. centre (3, 5), radius 3 3. centre (−2, 3), radius 1 4. centre (-7,0), radius 5. Find the centre and radius of these circles: 6. A circle has centre (3, -5). The point (-1, -8) lies on the circumference of the circle. What is the equation of the circle? 7. What is the equation of a circle whose diameter has endpoints (4, -1) and (-6, 7)? | | | **Stretch**   1. Find the centre and radius of the circle 2. Find the centre and radius of the circle |