**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
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