

Equation of a circle, centre $(-g, -f)$

$$x^2 + y^2 + 2gx + 2fy + c = 0$$



$$R = \sqrt{g^2 + f^2 - c}$$

In solving problems on the circle, we can choose any of the general forms, depending on the information given.

Example 1

Given that $(x-6)^2 + (y+2)^2 = 45$ is the equation of a circle, state the coordinates of the centre and the radius.

Solution

The equation is of the form $(x-a)^2 + (y-b)^2 = r^2$ where (a, b) is the centre and r is the radius.

Hence, $a = 6$, $b = -2$, and $r = \sqrt{45}$

Example 2

A circle has an equation

$$x^2 + y^2 + 4x - 2y - 4 = 0$$

State the coordinates of the centre and the radius of the circle.

Solution

The general form of the equation is:

$$x^2 + y^2 + 2gx + 2fy + c = 0$$

The equation can be expressed as

$$x^2 + y^2 + 2(2)x + 2(-1)y + (-4) = 0.$$

Hence, $g = 2$ and $f = -1$.

The centre of this circle is $(-g, -f)$, so

$$(-(-2), -(-1)) = (-2, 1)$$

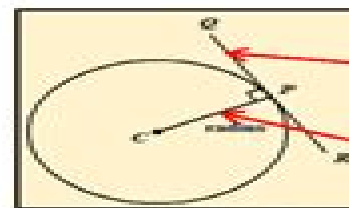
and the radius, $r = \sqrt{(2)^2 + (-1)^2 - (-4)} = 3$ units.

Tangent and normal to a circle

We define the tangent and normal to a circle as follows:

The tangent to a circle at a point is the straight line that 'just touches' the circle at that point.

The normal to a circle at a point is the straight line that is perpendicular to the tangent at that point.



QR is the tangent to the circle at P.

CP is the normal to the circle at P.

The gradient of the tangent and normal to a circle

We recall that the angle made by the tangent to a circle and a radius, at the point of contact, is a right angle. Also, the product of the gradients of perpendicular lines is -1 . Hence, if we obtain the gradient of either one of these lines, then we can deduce the gradient of the other.

To find the gradient of the tangent of a circle, centre, C at a given point, P, we calculate the gradient of the normal CP and then obtain the negative reciprocal of the gradient of CP.

Example 3

Find the gradient of the tangent of a circle at the point A (4, 7) whose centre is the origin.

Solution



The gradient of the normal, $AO = \frac{7-0}{4-0} = \frac{7}{4}$ where O is (0,0) and A(4, 7).

Hence, the gradient of the tangent at

$$A = \frac{-1}{\text{Gradient of } AO} = -\frac{4}{7}.$$

Circle Notes Geometry

**William Allen Whitworth, Charles
Taylor, James Whitbread Lee Glaisher**

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Table of Contents Circle Notes Geometry

1. Understanding the eBook Circle Notes Geometry
 - The Rise of Digital Reading Circle Notes Geometry
 - Advantages of eBooks Over Traditional Books
2. Identifying Circle Notes Geometry
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Circle Notes Geometry
 - User-Friendly Interface
4. Exploring eBook Recommendations from Circle Notes Geometry
 - Personalized Recommendations
 - Circle Notes Geometry User Reviews and Ratings
 - Circle Notes Geometry and Bestseller Lists
5. Accessing Circle Notes Geometry Free and Paid eBooks
 - Circle Notes Geometry Public Domain eBooks
 - Circle Notes Geometry eBook Subscription Services
 - Circle Notes Geometry Budget-Friendly Options
6. Navigating Circle Notes Geometry eBook Formats
 - ePub, PDF, MOBI, and More
 - Circle Notes Geometry Compatibility with Devices
 - Circle Notes Geometry Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Circle Notes Geometry
 - Highlighting and Note-Taking Circle Notes Geometry
 - Interactive Elements Circle Notes Geometry
8. Staying Engaged with Circle Notes Geometry

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Circle Notes Geometry
- 9. Balancing eBooks and Physical Books Circle Notes Geometry
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Circle Notes Geometry
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Circle Notes Geometry
 - Setting Reading Goals Circle Notes Geometry
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Circle Notes Geometry
 - Fact-Checking eBook Content of Circle Notes Geometry
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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