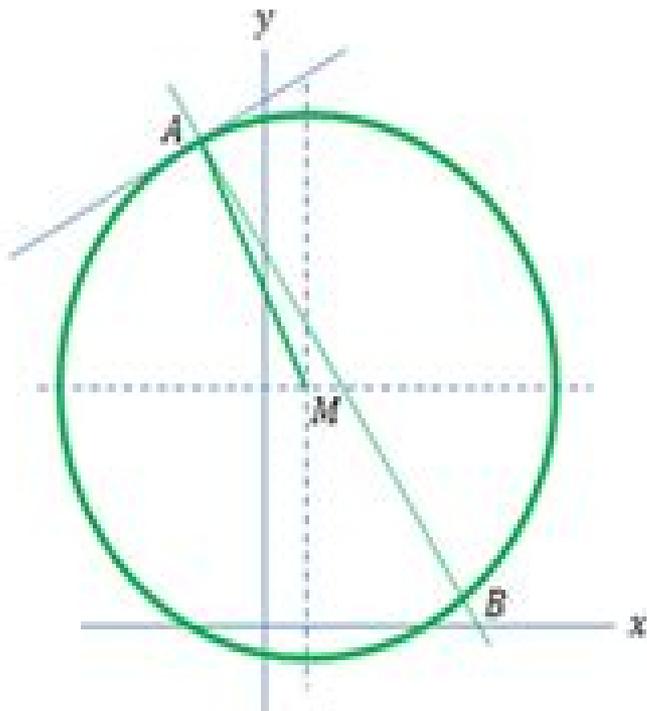




Given the circle $(x - 1)^2 + (y - 4)^2 = 25$
 The center of the circle is at M . The line $x + y - 6 = 0$ is cutting the circle at points A and B . Find the values of points A and B , the slope of line MA and the tangent to circle line equation at point A .



To find the points A and B we shall solve the set of equations:

$$(x - 1)^2 + (y - 4)^2 = 25 \quad (1)$$

$$x + y - 6 = 0 \quad (2)$$

From (2) $y = 6 - x$

To (1) $(x - 1)^2 + (6 - x - 4)^2 = 25$

$$(x - 1)^2 + (2 - x)^2 = 25$$

$$2x^2 - 6x - 20 = 0$$

The solutions are: $x = -2,5$ $A: (-2, 8)$ $B: (5, 1)$

The slope MA is: $m_{MA} = \frac{y_A - y_M}{x_A - x_M} = \frac{8 - 4}{-2 - 1} = -\frac{4}{3}$

Because slope m_{MA} is perpendicular to the tangent line slope then

tangent line slope is: $m_{MA} = -\frac{1}{m_{MA}} = \frac{3}{4}$

the tangent line equation will be:

$$y = m_{MA}x + y_A - m_{MA}x_A$$

$$y = \frac{3}{4}x + 8 - \frac{3}{4} \cdot (-2)$$

$$y = \frac{3}{4}x + \frac{38}{4}$$

$$3x - 4y + 38 = 0$$

Analytic Geometry Circle Problems With Solutions

Brendan G. Carr



Analytic Geometry Circle Problems With Solutions :

The book delves into Analytic Geometry Circle Problems With Solutions . Analytic Geometry Circle Problems With Solutions is a vital topic that needs to be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Analytic Geometry Circle Problems With Solutions , encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:

- Chapter 1: Introduction to Analytic Geometry Circle Problems With Solutions
- Chapter 2: Essential Elements of Analytic Geometry Circle Problems With Solutions
- Chapter 3: Analytic Geometry Circle Problems With Solutions in Everyday Life
- Chapter 4: Analytic Geometry Circle Problems With Solutions in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, the author will provide an overview of Analytic Geometry Circle Problems With Solutions . The first chapter will explore what Analytic Geometry Circle Problems With Solutions is, why Analytic Geometry Circle Problems With Solutions is vital, and how to effectively learn about Analytic Geometry Circle Problems With Solutions .

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6. In chapter 5, the author will draw a conclusion about Analytic Geometry Circle Problems With Solutions . This chapter will summarize the key points that have been discussed throughout the book.

This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Analytic Geometry Circle Problems With Solutions .

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