



1) Consider the cone K given by the equation

$$9x^2 + y^2 - z^2 = 0$$

- Treating K as a level surface of a function of three variables, find an equation of the tangent plane to K at the point $P(1, 4, 5)$.
- Use the Implicit Function Theorem to show that near the point P in part a), K can be considered to be the graph of a function f of y and z . Compute the partial derivatives f_y and f_z and show that the tangent plane found in a) coincides with the graph of the linearization $L(y, z)$ of $f(y, z)$ at $(4, 5)$.
- Use the method of Lagrange multipliers to find the point(s) closest to the z -axis along the intersection of K with the plane $z = 2$.

Solution. a) The cone K can be viewed as a level surface for the function $F(x, y, z) = 9x^2 + y^2 - z^2$. To obtain a normal vector to the tangent plane we may use the fact that the gradient vector is perpendicular to level surfaces. The gradient vector of $F(x, y, z)$ is

$$\nabla F(x, y, z) = F_x \mathbf{i} + F_y \mathbf{j} + F_z \mathbf{k} = 18x \mathbf{i} + 2y \mathbf{j} - 2z \mathbf{k}$$

which at the point $(1, 4, 5)$ becomes

$$\vec{n} = \nabla F(1, 4, 5) = 18(1) \mathbf{i} + 2(4) \mathbf{j} - 2(5) \mathbf{k} = 18 \mathbf{i} + 8 \mathbf{j} - 10 \mathbf{k}.$$

For any point $Q(x, y, z)$ in the tangent plane, the vector $\overrightarrow{PQ} = (x - 1) \mathbf{i} + (y - 4) \mathbf{j} + (z - 5) \mathbf{k}$ lies in the plane and as such it is perpendicular to \vec{n} , i.e. we have

$$\vec{n} \cdot \overrightarrow{PQ} = 0 \quad \Leftrightarrow \quad 18(x - 1) + 8(y - 4) - 10(z - 5) = 0 \quad \Leftrightarrow \quad 9x + 4y - 5z = 0.$$

Therefore $9x + 4y - 5z = 0$ is an equation for the tangent plane to K at $(1, 4, 5)$.

b) Since $F(x, y, z)$ is a polynomial function of x, y, z , its partial derivatives are continuous. Furthermore, we have $F(1, 4, 5) = 0$ and $F_x(1, 4, 5) = 18x|_{x=1} = 18 \neq 0$. By the Implicit Function Theorem, there is a neighbourhood of $(1, 4, 5)$ in which a unique function $x = f(y, z)$ exists that satisfies $F(f(y, z), y, z) = 0$. The partial derivatives of f are found via implicit differentiation

$$f_y = -\frac{F_y}{F_x} = -\frac{2y}{18x} = -\frac{y}{9x}, \quad f_z = -\frac{F_z}{F_x} = -\frac{-2z}{18x} = \frac{z}{9x}$$

taking the following values at $(1, 4, 5)$:

$$f_y(4, 5) = -\frac{4}{9(1)} = -\frac{4}{9}, \quad f_z(4, 5) = \frac{5}{9(1)} = \frac{5}{9}.$$

Hence the linearization of $x = f(y, z)$ at $(4, 5)$ is

$$\begin{aligned} L(y, z) &= f_y(4, 5)(y - 4) + f_z(4, 5)(z - 5) + f(4, 5) \\ &= -\frac{4}{9}(y - 4) + \frac{5}{9}(z - 5) + 1 \\ &= \frac{-4y + 5z}{9}. \end{aligned}$$

The graph of the linearization is given by the equation $x = \frac{-4y + 5z}{9}$ which is equivalent to the equation $9x + 4y - 5z = 0$ of the tangent plane found in part a).

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Table of Contents Jsc Posno 2

1. Understanding the eBook Jsc Posno 2
 - The Rise of Digital Reading Jsc Posno 2
 - Advantages of eBooks Over Traditional Books
2. Identifying Jsc Posno 2
 - 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 Jsc Posno 2
 - User-Friendly Interface
4. Exploring eBook Recommendations from Jsc Posno 2
 - Personalized Recommendations
 - Jsc Posno 2 User Reviews and Ratings
 - Jsc Posno 2 and Bestseller Lists

-
5. Accessing Jsc Posno 2 Free and Paid eBooks
 - Jsc Posno 2 Public Domain eBooks
 - Jsc Posno 2 eBook Subscription Services
 - Jsc Posno 2 Budget-Friendly Options
 6. Navigating Jsc Posno 2 eBook Formats
 - ePub, PDF, MOBI, and More
 - Jsc Posno 2 Compatibility with Devices
 - Jsc Posno 2 Enhanced eBook Features
 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Jsc Posno 2
 - Highlighting and Note-Taking Jsc Posno 2
 - Interactive Elements Jsc Posno 2
 8. Staying Engaged with Jsc Posno 2
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Jsc Posno 2
 9. Balancing eBooks and Physical Books Jsc Posno 2
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Jsc Posno 2
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Jsc Posno 2
 - Setting Reading Goals Jsc Posno 2
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Jsc Posno 2
 - Fact-Checking eBook Content of Jsc Posno 2
 - 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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