

14 □ PARTIAL DERIVATIVES

14.1 Functions of Several Variables

1. (a) $f(x, y) = \frac{x^2y}{2x - y^2} \Rightarrow f(1, 3) = \frac{1^2(3)}{2(1) - 3^2} = -\frac{3}{7}$

(b) $f(-2, -1) = \frac{(-2)^2(-1)}{2(-2) - (-1)^2} = \frac{4}{5}$

(c) $f(x + h, y) = \frac{(x + h)^2y}{2(x + h) - y^2}$

(d) $f(x, x) = \frac{x^2x}{2x - x^2} = \frac{x^3}{x(2 - x)} = \frac{x^2}{2 - x}$

2. (a) $g(x, y) = x \sin y + y \sin x \Rightarrow g(\pi, 0) = \pi \sin 0 + 0 \sin \pi = \pi \cdot 0 + 0 \cdot 0 = 0$

(b) $g\left(\frac{\pi}{2}, \frac{\pi}{4}\right) = \frac{\pi}{2} \sin \frac{\pi}{4} + \frac{\pi}{4} \sin \frac{\pi}{2} = \frac{\pi}{2} \left(\frac{\sqrt{2}}{2}\right) + \frac{\pi}{4}(1) = \frac{\pi(\sqrt{2} + 1)}{4}$

(c) $g(0, y) = 0 \sin y + y \sin 0 = 0 + y \cdot 0 = 0$

(d) $g(x, y + h) = x \sin(y + h) + (y + h) \sin x$

3. (a) $g(x, y) = x^2 \ln(x + y) \Rightarrow g(3, 1) = 3^2 \ln(3 + 1) = 9 \ln 4$

(b) $\ln(x + y)$ is defined only when $x + y > 0 \Rightarrow y > -x$.

Thus, the domain of g is $\{(x, y) \mid y > -x\}$.

(c) The range of $\ln(x + y)$ is \mathbb{R} , so the range of g is \mathbb{R} .

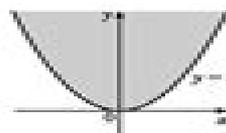


4. (a) $h(x, y) = e^{\sqrt{y-x^2}} \Rightarrow h(-2, 5) = e^{\sqrt{5-(-2)^2}} = e^{\sqrt{1}} = e$

(b) $\sqrt{y-x^2}$ is defined only when $y-x^2 \geq 0 \Rightarrow y \geq x^2$.

Thus, the domain of h is $\{(x, y) \mid y \geq x^2\}$.

(c) We know $\sqrt{y-x^2} \geq 0 \Rightarrow e^{\sqrt{y-x^2}} \geq 1$. Thus, the range of h is $[1, \infty)$.



5. (a) $F(x, y, z) = \sqrt{y} - \sqrt{x-2z} \Rightarrow F(3, 4, 1) = \sqrt{4} - \sqrt{3-2(1)} = 2 - 1 = 1$

(b) \sqrt{y} is defined only when $y \geq 0$. $\sqrt{x-2z}$ is defined only when $x-2z \geq 0 \Rightarrow x \leq \frac{1}{2}x$. Thus, the domain is $\{(x, y, z) \mid x \geq 2z, y \geq 0\}$, which is the set of points on or below the plane $x = \frac{1}{2}x$ and on or to the right of the xz -plane.

6. (a) $f(x, y, z) = \ln(x - \sqrt{x^2 + y^2}) \Rightarrow f(4, -3, 6) = \ln(6 - \sqrt{4^2 + (-3)^2}) = \ln(6 - \sqrt{25}) = \ln 1 = 0$

(b) $\ln(x - \sqrt{x^2 + y^2})$ is defined only when $x - \sqrt{x^2 + y^2} > 0 \Rightarrow x > \sqrt{x^2 + y^2} \Rightarrow x^2 > x^2 + y^2$. Thus, the domain is $\{(x, y, z) \mid x > \sqrt{x^2 + y^2}\}$, which is the set of points inside the top half of the cone $x^2 = x^2 + y^2$.

Calculus Solution

Robert Creighton Buck



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In an electronic era where connections and knowledge reign supreme, the enchanting power of language has are more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Calculus Solution**," published by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we will delve in to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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