

14 □ PARTIAL DERIVATIVES

14.1 Functions of Several Variables

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

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

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

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

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

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

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

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

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

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

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

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

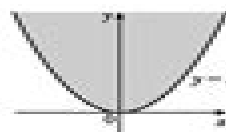


$$4. (a) h(x, y) = e^{\sqrt{y-x^2}} \Rightarrow h(-2, 5) = e^{\sqrt{5-(-2)^2}} = e^{\sqrt{1}} = e$$

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

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

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



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

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

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

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

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