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

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

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

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

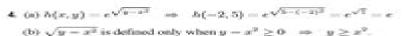
(c)
$$g(0, y) = 0 \sin y + y \sin 0 = 0 + y \cdot 0 = 0$$

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

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

(b) ln(x + y) is defined only when x + y > 0 ⇒ y > −x.
Thus, the domain of y is {(x, y) | y > −x}.

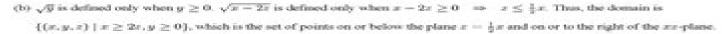




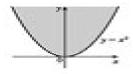
Thus, the domain of h is $\{(x, y) | y \ge x^2\}$.











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