

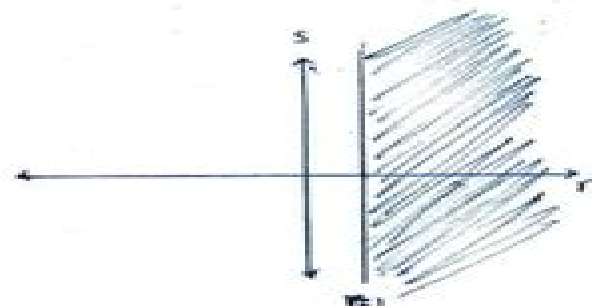
④

$$f(r, s) = \sqrt{1-r} - e^{s/3}$$

$$\text{Dom } f = \{(r, s) \in \mathbb{R}^2 : 1-r \geq 0\}$$

$$= \{(r, s) \in \mathbb{R}^2 : 1 \geq r\}$$

$$\text{or } \text{Dom } f = \mathbb{R}^2 - \{r : r < 1\}$$



$$f(1, 1) = \sqrt{1-1} - e^{1/3} = 0 - e = -e$$

$$f(0, 4) = \sqrt{1-0} - e^{4/3} = 1 - e^{4/3} = 0$$

$$f(-3, 3) = \sqrt{1-(-3)} - e^{3/3} = \sqrt{4} - e^1 = 2 - e = 2 - \frac{1}{e} = \frac{2e-1}{e}$$

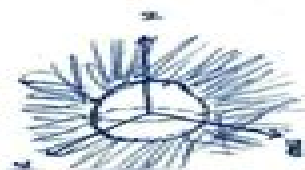
⑤

$$f(x, y, z) = \sqrt{25 - x^2 - y^2 - z^2}$$

$$\text{Dom } f = \{(x, y, z) \in \mathbb{R}^3 : 25 - x^2 - y^2 - z^2 \geq 0\}$$

$$= \{(x, y, z) \in \mathbb{R}^3 : 25 \geq x^2 + y^2 + z^2\}$$

i.e., boundary and interior of a circle whose radius is 5 and center is origin (0,0,0).



$$f(1, 2, 3) = \sqrt{25 - 1^2 - 2^2 - 3^2} = \sqrt{4} = 2$$

$$f(3, 4, 5) = \sqrt{25 - 3^2 - 4^2 - 5^2} = \sqrt{12} = 2\sqrt{3}$$

⑥

$$f(x, y, z) = 2 + \tan x + y \cos z = 2 + \frac{\sin x}{\cos x} + y \cos z$$

$$\text{Dom } f = \mathbb{R}^3 - \{x \in \mathbb{R} : \cos x = 0\}$$

$$= \mathbb{R}^3 - \{x \in \mathbb{R} : x = (2n+1)\frac{\pi}{2}, n \in \mathbb{Z}\}$$

$$f(\frac{\pi}{2}, \frac{\pi}{2}, \frac{\pi}{2}) = 2 + \tan \frac{\pi}{2} + \frac{\pi}{2} \cos \frac{\pi}{2} = 2 + 1 \cdot \frac{\pi}{2} = 5$$

$$f(\pi, \pi, \pi) = 2 + \tan \pi + \pi \cos \pi = 2 + 0 + 0 = 2$$

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