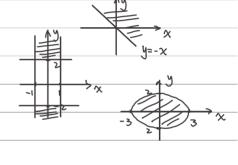
12.12支第十次作业答案

- (-)选择题
- 1. A. |1-y|≤1; x-y>0.
 - z. D. f(x+y, x-y) = (x+y). (x-y). ⇒ f(x,y) = xy
 - 3. C $z = ye^x \frac{\partial z}{\partial x} = ye^x$

(二) 解答题

(4)
$$D = \begin{cases} \frac{X^2}{9} + \frac{y^2}{4} \leq 1 \end{cases}$$
.



3. (1).
$$\frac{3}{3}x = 3x^2y^2$$
. $\frac{3}{3}y = 7x^3y$

$$(z). \frac{2}{3} = 4x^3.$$
 $\frac{3}{3} = 3y^2$

$$(3) \frac{\partial^2 y}{\partial x} = -\frac{1}{2}x. \qquad \frac{\partial^2 y}{\partial y} = \frac{1}{2}y$$

(4)
$$\frac{\partial^2}{\partial x} = \frac{y^2}{(x+y)^2}$$
 $\frac{\partial^2}{\partial y} = \frac{x^2}{(x+y)^2}$

$$(7) \stackrel{\partial w}{\partial x} = \frac{\overline{c}}{y} \cdot \chi^{\frac{3}{2}-1} \qquad \stackrel{\partial w}{\partial y} = -\frac{\overline{c} \ln x}{y^2} \cdot \chi^{\frac{3}{2}}, \qquad \stackrel{\partial w}{\partial z} = \frac{\ln x}{y} \cdot \chi^{\frac{3}{2}}, \qquad \stackrel{\partial w}{\partial z} = \frac{\ln x}{y} \cdot \chi^{\frac{3}{2}}, \qquad \stackrel{\partial w}{\partial z} = \frac{\ln x}{y} \cdot \chi^{\frac{3}{2}}, \qquad \stackrel{\partial w}{\partial z} = \frac{\ln x}{y} \cdot \chi^{\frac{3}{2}}, \qquad \stackrel{\partial w}{\partial z} = \frac{\ln x}{y} \cdot \chi^{\frac{3}{2}}, \qquad \stackrel{\partial w}{\partial z} = \frac{\ln x}{y} \cdot \chi^{\frac{3}{2}}, \qquad \stackrel{\partial w}{\partial z} = \frac{\ln x}{y} \cdot \chi^{\frac{3}{2}}, \qquad \stackrel{\partial w}{\partial z} = \frac{\ln x}{y} \cdot \chi^{\frac{3}{2}}, \qquad \stackrel{\partial w}{\partial z} = \frac{\ln x}{y} \cdot \chi^{\frac{3}{2}}, \qquad \stackrel{\partial w}{\partial z} = \frac{\ln x}{y} \cdot \chi^{\frac{3}{2}}, \qquad \stackrel{\partial w}{\partial z} = \frac{\ln x}{y} \cdot \chi^{\frac{3}{2}}, \qquad \stackrel{\partial w}{\partial z} = \frac{\ln x}{y} \cdot \chi^{\frac{3}{2}}, \qquad \stackrel{\partial w}{\partial z} = \frac{\ln x}{y} \cdot \chi^{\frac{3}{2}}, \qquad \stackrel{\partial w}{\partial z} = \frac{\ln x}{y} \cdot \chi^{\frac{3}{2}}, \qquad \stackrel{\partial w}{\partial z} = \frac{\ln x}{y} \cdot \chi^{\frac{3}{2}}, \qquad \stackrel{\partial w}{\partial z} = \frac{\ln x}{y} \cdot \chi^{\frac{3}{2}}, \qquad \stackrel{\partial w}{\partial z} = \frac{\ln x}{y} \cdot \chi^{\frac{3}{2}}, \qquad \stackrel{\partial w}{\partial z} = \frac{\ln x}{y} \cdot \chi^{\frac{3}{2}}, \qquad \stackrel{\partial w}{\partial z} = \frac{\ln x}{y} \cdot \chi^{\frac{3}{2}}, \qquad \stackrel{\partial w}{\partial z} = \frac{\ln x}{y} \cdot \chi^{\frac{3}{2}}, \qquad \stackrel{\partial w}{\partial z} = \frac{\ln x}{y} \cdot \chi^{\frac{3}{2}}, \qquad \stackrel{\partial w}{\partial z} = \frac{\ln x}{y} \cdot \chi^{\frac{3}{2}}, \qquad \stackrel{\partial w}{\partial z} = \frac{\ln x}{y} \cdot \chi^{\frac{3}{2}}, \qquad \stackrel{\partial w}{\partial z} = \frac{\ln x}{y} \cdot \chi^{\frac{3}{2}}, \qquad \stackrel{\partial w}{\partial z} = \frac{\ln x}{y} \cdot \chi^{\frac{3}{2}}, \qquad \stackrel{\partial w}{\partial z} = \frac{\ln x}{y} \cdot \chi^{\frac{3}{2}}, \qquad \stackrel{\partial w}{\partial z} = \frac{\ln x}{y} \cdot \chi^{\frac{3}{2}}, \qquad \stackrel{\partial w}{\partial z} = \frac{\ln x}{y} \cdot \chi^{\frac{3}{2}}, \qquad \stackrel{\partial w}{\partial z} = \frac{\ln x}{y} \cdot \chi^{\frac{3}{2}}, \qquad \stackrel{\partial w}{\partial z} = \frac{\ln x}{y} \cdot \chi^{\frac{3}{2}}, \qquad \stackrel{\partial w}{\partial z} = \frac{\ln x}{y} \cdot \chi^{\frac{3}{2}}, \qquad \stackrel{\partial w}{\partial z} = \frac{\ln x}{y} \cdot \chi^{\frac{3}{2}}, \qquad \stackrel{\partial w}{\partial z} = \frac{\ln x}{y} \cdot \chi^{\frac{3}{2}}, \qquad \stackrel{\partial w}{\partial z} = \frac{\ln x}{y} \cdot \chi^{\frac{3}{2}}, \qquad \stackrel{\partial w}{\partial z} = \frac{\ln x}{y} \cdot \chi^{\frac{3}{2}}, \qquad \stackrel{\partial w}{\partial z} = \frac{\ln x}{y} \cdot \chi^{\frac{3}{2}}, \qquad \stackrel{\partial w}{\partial z} = \frac{\ln x}{y} \cdot \chi^{\frac{3}{2}}, \qquad \stackrel{\partial w}{\partial z} = \frac{\ln x}{y} \cdot \chi^{\frac{3}{2}}, \qquad \stackrel{\partial w}{\partial z} = \frac{\ln x}{y} \cdot \chi^{\frac{3}{2}}, \qquad \stackrel{\partial w}{\partial z} = \frac{\ln x}{y} \cdot \chi^{\frac{3}{2}}, \qquad \stackrel{\partial w}{\partial z} = \frac{\ln x}{y} \cdot \chi^{\frac{3}{2}}, \qquad \stackrel{\partial w}{\partial z} = \frac{\ln x}{y} \cdot \chi^{\frac{3}{2}}, \qquad \stackrel{\partial w}{\partial z} = \frac{\ln x}{y} \cdot \chi^{\frac{3}{2}}, \qquad \stackrel{\partial w}{\partial z} = \frac{\ln x}{y} \cdot \chi^{\frac{3}{2}}, \qquad \stackrel{\partial w}{\partial z} = \frac{\ln x}{y} \cdot \chi^{\frac{3}{2}}, \qquad \stackrel{\partial w}{\partial z} = \frac{\ln x}{y} \cdot \chi^{\frac{3}{2}}, \qquad \stackrel{\partial w}{\partial z} = \frac{\ln x}{y} \cdot \chi^{\frac{3}{2}}, \qquad \stackrel{\partial w}{\partial z} = \frac{\ln x}{$$

(8)
$$\frac{\partial y}{\partial x} = \frac{1}{z} - \frac{x}{x^2}$$
 $\frac{\partial y}{\partial y} = \frac{1}{x} - \frac{y}{z^2}$ $\frac{\partial z}{\partial z} = \frac{1}{y} - \frac{x}{z^2}$

4. (1)
$$\frac{\partial^2}{\partial x} = 4x^3 + bxy$$
. $\frac{\partial^2}{\partial x^2} = 12x + by$ $\frac{\partial^2}{\partial x} = bx$

$$\frac{\partial^2}{\partial y} = 3x^2 + 3y^2$$

$$\frac{\partial^2}{\partial x} = \ln(x + y) + \frac{x}{x + y}$$

$$\frac{\partial^2}{\partial x} = \frac{1}{(x + y)} + \frac{y}{(x + y)^2}$$

$$\frac{\partial^2}{\partial y} = \frac{x}{x + y}$$

$$\frac{\partial^2}{\partial y} = -\frac{x}{(x + y)^2}$$

$$\frac{\partial^2}{\partial x} = \ln(x + y) \triangleq \frac{\partial^2}{\partial x} (x, y) \text{ (b)} \frac{\partial^2}{\partial x} = \frac{\partial^2}{\partial x} (\frac{\partial^2}{\partial x}) = 2x \frac{\partial^2}{\partial x}$$

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