Check your understanding

22. Is every plane $ax+by+cz+d=0$ the graph of some function?

    (a) Yes.

    (b) No.

Answer: (b)

Explanation: A "vertical" plane with $c = 0$ cannot be the graph of a function because it fails the "vertical line test". Also the equation $ax + by + d = 0$ cannot be written in the form $z = f(x, y)$ beause it does not contain z.