MATH 2551 Multivariable Calculus: Tangent planes

1. What is the equation of the tangent plane to the surface

$$z = x^2 + y^2$$

at the point (1,1,2)?

A.
$$z = 2x + 2y + 1$$

B. $z = 2x + 2y - 1$
C. $z = x + y + 1$
D. $z = x + y - 1$

B.
$$z = 2x + 2v - 1$$

C.
$$z = x + y + 1$$

D.
$$z = x + v - 1$$

Answer: A