



Question

The vector \vec{v} is tangent to the graph of $z = 4 - x^2 - y^2$ at the point $(x, y, 4 - x^2 - y^2)$ and has the form $\vec{v} = \Delta x \vec{i} + T \vec{k}$ for some Δx and formula T depending on x , y , and Δx . What is the formula for T ?

- A. 0
- B. $-2x$
- C. $-2x\Delta x$
- D. $-4y\Delta y$
- E. Δx