Lines and Planes

Question

Consider the line with parametric equations $x = 1 + 3t$, $y = 2 - 2t$, $z = 1 + t$. Which of the following vectors is parallel to the line?

A. $\langle 1, 2, 1 \rangle$
B. $\langle 3, -2, 1 \rangle$
C. $\langle 4, 0, 2 \rangle$
D. None of these.