

# Vector Functions and Space Curves



## Question

Which of these vector functions does NOT have range which is contained in a line?

- A.  $\vec{r}(t) = \langle 3, 1, 2 \rangle + t^2 \langle 1, -1, 0 \rangle$
- B.  $\vec{r}(t) = \langle 3, 1, 2 \rangle + t \langle 1, -1, 0 \rangle$
- C.  $\vec{r}(t) = \langle 2t - 1, t, -3t + 5 \rangle$
- D.  $\vec{r}(t) = t\vec{i} + t\vec{j} + t^2\vec{k}$
- E.  $\vec{r}(t) = \langle 1, 2, t \rangle$