



Question

Which of these vector-valued functions of u and v does *not* have range which is contained in a plane?

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