Hence and one sufficient to spon all of R3

 V_3 is linearly dependent of vectors $V_1 \in V_2$ $V_3 = 3V_1 - V_2$

Hence stank (A) $\neq 3$, hence the set of vectors cannot span \mathbb{R}^3 .

We need rank 3 for spanning all of R3, else not possible.