Subspace 8If Subspace W of a vector Apace V is Called a subspace of V if W is itself a vector space under the addition and scalar Multiplication.

HEOREM

From a vector space V, then w is a subspace of Vit and only it the following Conditions hold.

Of u and vare vectors in w

then u + v in w.

& B If K is any scalar and u is any vector in w, then Ku is in w.

Overstional Use Theorem to determined 3 which of the following are subspace of R?

Solution (a, 0, 6)

Let, $U = (U_1, 0, 0)$, $V = (V_1, 0, 0)$ be two space vector in R³ and K is any scales