Assignment 2.

Question (1)

1.) A linear combination of two or more vectors is the vector obtained by adding two or more vectors (with different directions) which are multiplied by scalar values.

2) A Sequence of vector is said to linearly independent if there exist scalars not all zero, it can also be defined by that a sequence of vectors is linearly dependent if and only if some vector in that sequence can be written as a linear combination of the other vectors.

QUESTION (3)

1) Commutativity of vector addition

2) Associativity of vector addition

3) Identity element of addition

4) Distributivity of scalar multiplication with respect to vector addition