- 1. Diversions of matrix A: PX9
- 2 yes.

Conditions:

- 1. Dimensionality reduction preserves at large two dimens the of common then sions in vectors pand of.
- 2. The points in the original rector had 0-valued destructive amengion values

8, Eg.

(1,2,0) | (2,4,0) -> (1,2) (2,4)
using A to reduce originally
elminating the Zaxis.

3, a) q=2, p=2.

Original: (1,2) ; (3,4)

A= 12

New: (1,2); (3,4)

b) 9=2 p=1

Original: (3,5); (1;5)

New: (3), (1)

A: [1 0]

e) q=4 p=2

original: (1,4,7,3); (7,4,7,6)

New: (1,3); (7,6)

A. [1000]