1) Which of the following sets of vectors are linearly independent?

A) {(1,2,3), (4,5,6), (7,8,9)}
B) {(1,1,1), (2,2,2), (3,3,3)}
C) {(1,0,0), (0,1,0), (0,0,1)}
D) {(1,2,3), (4,8,12), (9,18,27)}

Answer Key:

1) C) {(1,0,0), (0,1,0), (0,0,1)}