# Week 1

## Quiz 3

**Ques1.** A = [1 -4 ; -2 1], B = [0 3 ; 5 8], A + B = ?
**Answer:** [1 -1 ; 3 9]

**Ques2.** Let x = [5 ; 5 ; 2 ; 7], 2 * x = ?
**Answer:** [10 ; 10 ; 4 ; 14]

**Ques3.** Let u be a 3-dimensional vector, where specifically u = [8 ; 1 ; 4].
What is the transpose of u?
**Answer:** [8 1 4]

**Ques4.** Let u and v be 3-dimensional vectors, where specifically
u = [4 ; -4 ; -3],v = [4 ; 2 ; 4]. What is the result of the transpose of u times v?
**Answer:** -4

**Ques5.** Let A and B be 3x3 (square) matrices. Which of the following must
necessarily hold true? Check all that apply.
**Answer:** A+B=B+A ; If A is the 3x3 identity matrix, then A * B = B * A
A $*$ B=B $*$ A