Math 9 Fall 19 Homework 1 (Due on Sep 25th 4:30 pm)

(1) (3 pts) Linear algebra 1.2.11

(2) (3 pts) Linear algebra 1.2.12

(3) (3pts each) Linear Algebra 1.2.13 (h) (i) (j)

(4) (3 pts) Linear algebra 1.2.14

(5) (3 pts) Linear algebra 1.2.15

(6) (3 pts) Can you find real numbers s and t such that

$$< 1, 2, 3 >= s < 1, -1, 2 > +t < 2, 2, 5 >?$$

Justify your answer. (Hint: set up a system of linear equations in s and t)