Exercise 1. The system of vectors $\{\underline{u}, \underline{v}, \underline{w}\}$ is a basis of R^3. Determine whether system of vectors $\{2\underline{u}-\underline{v}, \underline{u}+2\underline{v}+5\underline{w}, 3\underline{v}-2\underline{w}\}$ is also a basis of R^3.

Exercise 2. Find the angle between the vectors: $[\sqrt{11}, -2, 1]$ i $[0, 3, -4]$.

Exercise 3. Find the value of *x,* for which the angle between the vectors: [*-2x, 3, 2*] i [x, 2x, 4] is $\frac{\pi}{2}$.

Exercise 4. Find the basis of R^3 in which coordinates of the vector $\underline{v}$ = [2, -1, 4] are (-2, 3, 0).