## King Fahd University Of Petroleum & Minerals Department of Mathematics & Statistics STAT416: Stochastic Processes for Actuaries (181) Assignment # 2 (Due in Tuesday, October 3, 2018)

Do the following problems as appear in their order.

Problem.1 Use algebra to solve problem 6 page 261 of your text book.

(Hint. Find the eigenvalues and the corresponding eigenvectors)

Problem.2 Solve problem 14 page 262 of your text book.