KFUPM – Department of Mathematics and Statistics – Term 141

MATH 550
Exam # 2 (Due by December 14, 2014)

NAME:_____ ID:_____

Solve the following Exercises.

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Exercise 9	Exercise 20	Page 243	Section 7.2
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Exercise 11. True or False (Justify). T a diagonalizable linear operator on a finite-dimensional vector space V. Then every linear operator which commutes with T is a polynomial of T.

Exercise 12. True or False (Justify). If a diagonalizable operator has only the characteristic values 0 and 1, then it is a projection.