

NAME: \_\_\_\_\_ ID: \_\_\_\_\_ Section: \_\_\_\_\_

**Exercise 1** (10 points) Use the variation of parameters to solve the system  $X' = \begin{pmatrix} 1 & 1 \\ 1 & 1 \end{pmatrix} X + \begin{pmatrix} t \\ 1 \end{pmatrix}$

KFUPM – Department of Mathematics and Statistics – Term 152

**MATH 202**

**QUIZ # 6 Code 2** (Duration = 20 minutes)

NAME: \_\_\_\_\_ ID: \_\_\_\_\_ Section: \_\_\_\_\_

**Exercise 1**(10 points) Use the variation of parameters to solve the system  $X' = \begin{pmatrix} 2 & 1 \\ 1 & 2 \end{pmatrix} X + \begin{pmatrix} 1 \\ t \end{pmatrix}$