# KFUPM – Department of Mathematics and Statistics – Term 101 **MATH 202**

**QUIZ # 4 Code 1** (Duration = 20 minutes)

NAME:	ID:	Section:
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Exercise 1 (7 points)

Solve the system 
$$X' = \begin{pmatrix} 1 & -1 \\ 1 & 1 \end{pmatrix} X$$

### Exercise 2 (8 points)

Solve the system 
$$X' = \begin{pmatrix} 2 & 0 & 0 \\ 0 & 2 & 2 \\ 1 & 0 & 2 \end{pmatrix} X$$

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**QUIZ # 4 Code 2** (Duration = 20 minutes)

NAME:	ID:	Section:
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Exercise 1 (7 points)

Solve the system 
$$X' = \begin{pmatrix} 2 & -2 \\ 2 & 2 \end{pmatrix} X$$

### Exercise 2 (8 points)

Solve the system 
$$X' = \begin{pmatrix} 1 & 0 & 0 \\ 0 & 1 & 1 \\ 1 & 0 & 1 \end{pmatrix} X$$

# KFUPM – Department of Mathematics and Statistics – Term 101 **MATH 202**

**QUIZ # 4 Code 3** (Duration = 20 minutes)

NAME:	ID:	Section:

Exercise 1 (7 points)

Solve the system 
$$X' = \begin{pmatrix} 3 & 3 \\ -3 & 3 \end{pmatrix} X$$

#### Exercise 2 (8 points)

Solve the system 
$$X' = \begin{pmatrix} 3 & 0 & 0 \\ 0 & 3 & 1 \\ 1 & 0 & 3 \end{pmatrix}$$