

Name:

ID:

serial:

MATH-202

Term-072

QUIZ-5

Form(B)

1) Solve $X' = AX$

$$A = \begin{bmatrix} 6 & -1 \\ 5 & 2 \end{bmatrix}$$

Hint: $\begin{bmatrix} 2+i \\ 5 \end{bmatrix}$ is an eigenvector for the matrix A
associated with the eigenvalue $\lambda = 4 + i$

2) Solve $X' = \begin{pmatrix} 1 & -1 \\ 0 & 1 \end{pmatrix} X$