

KING FAHD UNIVERSITY OF PETROLEUM AND MINERALS
DEPARTMENT OF MATHEMATICS AND STATISTICS
MATH 260 - QUIZ 2

Name:

Student ID #:

Question. Find the matrix X that satisfies the matrix equation $AX = 2BX - C$ where

$$A = \begin{bmatrix} 3 & -2 & -3 \\ 8 & -3 & 7 \\ 10 & 4 & 5 \end{bmatrix}, B = \begin{bmatrix} 1 & 0 & -3 \\ -3 & -2 & 0 \\ 4 & 1 & -1 \end{bmatrix}, C = \begin{bmatrix} 1 & 2 \\ 0 & 1 \\ -1 & -1 \end{bmatrix}.$$

Your Solution.