

STA 721: Quiz 1

September 18, 2013

The following matrices will be used throughout this quiz.

$$A = \begin{bmatrix} 1 & 1 & 0 & 0 \\ 1 & 1 & 0 & 0 \\ 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}$$

$$B = \begin{bmatrix} 1 & 0 & 0 \\ 1 & 0 & 0 \\ 0 & 1 & 0 \\ 0 & 0 & 1 \end{bmatrix}$$

$$D = \begin{bmatrix} 1 & 0 \\ 1 & 0 \\ 2 & 5 \\ 0 & 0 \end{bmatrix}$$

$$E = \begin{bmatrix} 1 & 2 \\ 1 & 2 \\ 2 & 7 \\ 0 & 0 \end{bmatrix}$$

$$F = \begin{bmatrix} 1 & 5 & 6 \\ 1 & 5 & 6 \\ 0 & 7 & 2 \\ 0 & 0 & 9 \end{bmatrix}$$

$$G = \begin{bmatrix} 1 & 0 & 5 & 2 \\ 1 & 0 & 5 & 2 \\ 2 & 5 & 7 & 9 \\ 0 & 0 & 0 & 3 \end{bmatrix}$$

$$H = \begin{bmatrix} 1 & 0 & 2 & 2 & 6 \\ 1 & 0 & 2 & 2 & 6 \\ 7 & 9 & 3 & 9 & -1 \\ 0 & 0 & 0 & 3 & -7 \end{bmatrix}$$

$$K = \begin{bmatrix} 1 & 0 & 0 \\ 1 & 0 & 0 \\ 1 & 1 & 0 \\ 1 & 0 & 1 \end{bmatrix}$$

$$L = \begin{bmatrix} 2 & 0 & 0 \\ 2 & 0 & 0 \\ 1 & 1 & 0 \\ 1 & 0 & 1 \end{bmatrix}$$

$$N = \begin{bmatrix} 1 \\ 2 \\ 3 \\ 4 \end{bmatrix}$$