CMPT 726 Assignment 0

$$\begin{vmatrix} 1 & q \\ -1 & = \frac{1}{4^{3}} + 6c \begin{pmatrix} -1 & -1 \\ -1 & q \end{pmatrix} = \frac{1}{3^{3}} \begin{pmatrix} -1 & 0 \\ 0 & 3 \end{pmatrix} = \begin{pmatrix} -1 & 0 \\ 0 & 1 \end{pmatrix}$$

$$\begin{vmatrix} -1 & -1 & -1 \\ -1 & q \end{vmatrix} = -\frac{1}{3} \begin{pmatrix} -1 & 0 \\ -1 & 3 & 6 \end{pmatrix} = \begin{pmatrix} -1 & -1 & 0 \\ -1 & 3 & 6 \end{pmatrix} = \begin{pmatrix} -1 & -1 & 0 \\ -1 & 3 & 6 \end{pmatrix}$$

$$\begin{vmatrix} -1 & -1 & -1 & -1 \\ -1 & q \end{vmatrix} = -\frac{1}{3} \begin{pmatrix} -1 & 3 & 0 \\ -1 & 3 & 6 \end{pmatrix} = \begin{pmatrix} -1 & -1 & 3 & 0 \\ -1 & 3 & 6 & -1 \end{pmatrix}$$

$$\beta = (\frac{5.2 + 4.3}{3.3 + 2.3} + \frac{4.2}{3.3} - \frac{(-2.7)}{0.6})$$

$$\beta = (\frac{5.2 + 2.3}{3.5 + 2.3} + \frac{3.4}{3.3}) - \frac{(-2.7)}{0.6}$$

$$\beta = (\frac{5.2 + 2.3}{3.5 + 2.3} + \frac{3.4}{3.4}) - \frac{(-2.8)}{0.6}$$

() Find when
$$det(-\lambda I) = 0$$

 $det(-\frac{3}{3},\frac{3}{2}) - (\frac{3}{6},\frac{9}{6}) = 0 \iff (\frac{3}{2},\frac{3}{2},\frac{3}{2}) = 0$
 $= (\frac{3}{4},\frac{3}{4}) - (\frac{3}{6},\frac{3}{2}) = 0 \iff (\frac{3}{4},\frac{3}{4}) = 0$
 $= (\frac{3}{4},\frac{3}{4}) - (\frac{3}{6},\frac{3}{4}) = 0$
 $= (\frac{3}{4},\frac{3}{4}) - (\frac{3}{6},\frac{3}{4}) = 0$
 $= \frac{3}{4},\frac{3}{4} - \frac{3}{4} = 0$
 $= \frac{3}{4},\frac{3}{4} = 0$
 $= \frac{3}{4$

eigen vector
$$A = 1$$
: $A = 1$

$$\frac{9x^{5}x'}{9x^{4}} = \frac{9x'}{9}(17x^{4} + 9x^{5}) = \overline{9}$$

$$\frac{9x'}{9x} = \frac{9x'}{9}(17x^{4} + 9x^{5}) = \overline{9}$$

$$\frac{9x'}{9x} = \frac{9x'}{9}(9x^{4} + 9x^{5}x^{5}) = 19x^{4} + 9x^{5} = 17x^{4} + 9x^{5} = 17x^{5} + 9x^{5} = 17x^{5}$$

$$\rho) \left(\begin{array}{cc} + \lambda \eta + \lambda \eta & \lambda \eta & \lambda \eta \\ \end{array} \right) = \left(\begin{array}{c} + \lambda \eta + \lambda \eta \\ \eta + \lambda \eta & \gamma \end{array} \right) = \left(\begin{array}{c} (\chi) \\ (\chi^{2}) + (\chi^{2}) \end{array} \right)$$

Hessian: need and partials & mixed partials

$$\frac{4x_{3}^{2}}{f_{3}t} = \frac{7x^{3}}{7}(\rho \lambda') = 0$$

$$\frac{7x_{3}^{1}}{f_{3}t} = \frac{9x^{1}}{7}(17x^{1} + \rho h^{2}) = 19$$

$$\frac{9^{x/x^2}}{9^x + \frac{1}{4}} = \frac{9^{xy}}{9^x} (17^{x'} + 9^{x'}) = 0$$

$$\frac{9x^3x^1}{9x^4} = \frac{9x'}{9}(9x') = 9$$

$$\left(\begin{array}{c} + \left(\begin{array}{cc} - \left(\begin{array}{cc} \frac{1 \lambda^2 \lambda^1}{3 r^2} & \frac{1 \times J}{3 r^2} \\ \end{array} \right) - \left(\begin{array}{cc} \frac{1 \lambda^2 \lambda^1}{3 r^2} & \frac{1 \times J}{3 r^2} \end{array} \right) - \left(\begin{array}{cc} 0 & 0 \\ \end{array} \right) \end{array} \right)$$

3. a) PMF-> P(Y=Y)=1/2 for YE & 1.2...18}

Fy(1) = P(Y:1)= 18 ... Fy(2) = P(Y:2) = 78 ... Fy(8) = P(Y:8) = 1

b)
$$P(Y=2|Y|S|PVPV) = \frac{P(Y=2|\alpha n|Y|S|PVPV)}{P(Y|S|PVPV)}$$

T=Y, +Y2+...+Yn =>E[T]=E[Y,]+E[Y,]+..+E[Yn]=n.E[Y]=4.5n