Problem 6-3

1) depree correlation matrix

note	demes
0,1	2,3
0,3	2,2
1,2	5, 1
1,3	3 ₁ 2

1) E is Symmetric

$$E = C \cdot \frac{1}{2} \left(\begin{array}{cccc} \frac{1}{0} & \frac{2}{3} & \frac{3}{1} \\ 0 & 0 & 1/2 \\ 3 & 1/2 & 1 & 0 \end{array} \right)$$

$$= \frac{1}{4} \cdot \dots$$

3.)
$$r = \sum_{jh} \frac{ju (q_{jh} - 7j q_{k})}{\sigma^{2}}$$

$$\sigma^{2} = \sum_{h} u^{2}q_{h} - (\sum_{h} u_{qh})^{2}$$

$$-3 \text{ Metwork } x$$

$$r = -0.714$$