Homework #8
$$Ch.4-2(1,37,9.12.13.16,21)$$

1) a) $(\frac{7}{1})(0.3)^{1}(1-0.3)^{6} = 0.2471$

b) $(\frac{7}{2})(0.3)^{2}(1-0.3)^{5} = 0.3177$

c) $(\frac{7}{0})(0.3)^{6}(1-0.3)^{7} = 0.08241$

d) $(\frac{7}{5})0.3^{5} \cdot 1-0.3^{2} + (\frac{7}{1})0.3^{5} \cdot 1-0.3^{1} + (\frac{7}{1})0.3^{7} \cdot 1-0.3^{6}$
 $= 0.0288$

e) $\times Gin(7,0.3) = 1.47$

3) (2) 0.62.1-0.62 = 0.3456 6) 1-(8)0.20.1-0.28-(9)0.21.1-0.27-(9)0.22.1-0.26

6)(5)0.40.1-0.45 + (5) 6.41.1-0.44 + (5)0.421-0.43

-0.6826

7) a) 20! (0.15) 5(0.85) = 0.1028

b) 0.1028 + 20! .0.15:0.8517 + 20! .0.152.0.8518 + 20! .(0.15)3 (0.85)17 1:19! 2:18!

= 0.6477

C)
$$\frac{20!}{0!70!} \cdot 0.15^{\circ} \cdot 0.85^{20} = 0.0328$$

C) $\frac{20!}{20!0!5} \cdot 0.15^{\circ} \cdot 0.85^{20} = 0.0328$

C) $\frac{20!}{20!0!5} \cdot 0.15^{\circ} \cdot 0.85^{20} = 1.547$

Q) A) $\frac{5!}{11!1!} \cdot 20.64 \times 0.41^{\circ} - \frac{5!}{5!0!} \times 0.65 \times 0.41^{\circ} = 0.6630$

b) $\frac{5!}{2!3!} \times 0.62 \times 0.43^{\circ} + \frac{5!}{3!2!} \times 0.65 \times 0.42^{\circ} = 0.5460$

12) A) $\frac{1 - 0.60}{20!} \times 0.082 \times 0.92^{13} = 0.2710$

13) A) $\frac{20!}{20!} \times 0.082 \times 0.92^{13} = 0.2710$

14) A) $\frac{1 - 0!}{0!10!} \times 0.040 \times 0.96^{10} = \frac{10!}{11!9!} \times 0.044^{\circ} \times 0.96^{10} = 0.06242$

C) $\frac{1 - 0!}{0!10!} \times 0.040^{\circ} \times 0.08^{10} = \frac{10!}{11!9!} \times 0.021^{\circ} \times 0.044^{\circ} = 0.06242$

C) $\frac{1 - 0!}{0!10!} \times 0.020^{\circ} \times 0.08^{10} = \frac{10!}{11!9!} \times 0.021^{\circ} \times 0.044^{\circ} = 0.06242$

C) $\frac{1 - 0!}{0!10!} \times 0.020^{\circ} \times 0.08^{10} = \frac{10!}{11!9!} \times 0.021^{\circ} \times 0.044^{\circ} = 0.06242$

C) $\frac{1 - 0!}{0!10!} \times 0.020^{\circ} \times 0.08^{10} = \frac{10!}{11!9!} \times 0.021^{\circ} \times 0.044^{\circ} = 0.06242$

d) $\frac{5!}{0!10!} \times 0.020^{\circ} \times 0.020^{\circ} \times 0.041^{\circ} \times 0.041^$

$$\begin{array}{c} 5) e^{-1} \frac{L10}{0!} = 0.0183 \\ c) 0.0733 + 0.0183 = 0.0916 \\ 2) 1 - 0.0183 - 0.0733 = 0.9081 \\ e) 0 = 11 \\ f) \sqrt{\lambda} = 2 \\ 3) 0) e^{-5} 5^{\circ} = 0.1462 \\ 5) e^{-5} 5^{\dagger} = 0.1247 \end{array}$$

n) =11 L1 = 0.0=33

c) $e^{\frac{1}{5}}s' = 0.2507$ 2) $M_4 = 5$ e) $0 \times = \sqrt{5} = 2.23$

8) a)
$$(43)(2.71828^{-11})(3! = 0.1984)$$

b) $(41.3^{2})(2.71828)^{-4.3}(8! = 0.0055)$
(1) $[-(4.2^{0})(e^{-4.2})(1.2^{1})(e^{-4.2})(e$