P(A) \$2. 48 . 44 . 40 . 36 = 0.507 (migun face value

4. 2 cardy the same and only 2

P(B)=3.4.3.48.47.46 = 0.0519 pair 000

P(L) = 52 · 12 · 11 · 10 · 9 = 0.00194

ELA)= 0.1.0.06 + 0.14.003 + 0.50 .0.02 + 0.24.0.04 = 0.0306

b. P(Accident 1) Age 16-20) = 0.10.0.06 = 3 = 0.004

159d-1706 50%-A 50%-B A-50% B-50%

A'UB' = 50+50-15=85% ANB= 50%+50%-85% = 15%

1 4 = 0 : PEA' NB') = 19%

Y = 1: P(A) UB)-P(N'AB) = 85-15= 75%

Y = 7 : P(A 13) = P(A) + P(B) - P(A'AB') = 50+52-85 = 15%

P(4=2) = 13% = 15%

NAT (X) = EI(EM-X)3) 1, E(x)=0.0.1+1.0.2+2.0.3+3.0.4=2

E(2x+1) = 0 + (2.1+1) . 0.2 + (2.2+1) . 0.3 + (2.3+1) . 0.4 = 4.9

6. Vark) = 6+(1-73.0.2 + (2-23-0.3 + (2-3)-0.4 = 0.6

Var (2x+1) = 4. + (3-4.9)2.0.2 + (5-4.9)3.0.3 + (7-4.9)3.0.4 = 2.489

PGHD = 0.4 PCT2= 0.3

$$P(x)Z) = \frac{\sum_{k=3}^{9} (2) \cos^{2} x^{k} (0.3)^{9-k}}{\sum_{k=0}^{9} (2) \cos^{2} x^{k} (0.3)^{9-k}} = \frac{0.9917}{1}$$

$$3 = \frac{P(x=2)}{P(x=4)}$$

$$3 = \frac{\lambda^{2}e^{-2}}{2!} = \frac{\lambda^{2}}{2e^{2}} = \frac{12e^{2}}{2!}$$

$$\frac{\lambda^{4}e^{-1}}{2!} = \frac{\lambda^{2}}{2!}$$

P(x, 7)= x = 2

$$\frac{e^2}{4} = \frac{1}{2^2} \Rightarrow \mathcal{N} = \sqrt{\frac{4}{e^2}} \quad \approx \quad e^2$$