10/
$$\rho = 0.985$$
 $p(fail) = 0.015$
(a) $0.015 \cdot 0.015 = 0.000 225$
(b) at least one satisfactory
= 1- Prob (neither)
= 1- 0.000 225
= 0.999775

```
CONDITIONAL PROBABILITY fact
   Flu epidemic - 35% of students have flu
    - of those with flu, 90% have temperature
- 12% of those with other illnesses also
have a temp.
 P(FT) = 0.315
 P(NR) = 0.572
P(T)= FT OR NT
     = 0.315 + 0.078
     =0.393
  If a student with a normal temp is selected,
   What is the prob holske has the flu?
                  = P(FR)
                                  0.035
                        P(R) -0.035+0.572
         3 iven
    P(AIB)=P(AB)
```

	Total car	95000 Accid	1/00D Accid	/ No Racid		\$ 1400 per year \$ 500 deductible
Prob	0.05	0.02	0.03	0.9		Car worth \$10,000
6ain1 Loss	10,000 - 500 -1400	5000 -1400 3100	- 500 - 1400 - 900	-1400		
E.V. = (0.05)(8100) + (0.02)(3100) + (0.03)(-900) + (0.9)(-1400) = -820 per yr						