WWW.UPDFCON P (A VB) = 0.4+0.7 - 0.4 x 0-7 = 0.82

72. Az and Az are independent. P(A) × P(A3) = 0.15 × 0.18 = 0.07

84. A. 0.7x0.7x0.7 = 0.343

c. 3x0.7x0.3x0.3 = 0.189

e. P(all three pass I at least one pass)

$$= \underbrace{0.343}_{0.973}$$

4. Possible values of x: 1,2,3,4,5 3.1.

$$x(223|3) = 5 \times ((0002)) = 2 \times (2024|) = 4$$

No. Let s be set of natural number N, define random variable x as

x has only two values, however the sample space is infinite.





3.1. 11.
$$\alpha$$
. 0.05 + 0.1 + 0.12 + 0.14 + 0.25 + 0.17 = 0.83
b. 1-0.83 = 0.17
c. $P(Y \le 49) = 0.05 + 0.1 + 0.12 + 0.14 + 0.25$
= 0.66
 $P(Y \le 47) = 0.05 + 0.1 + 0.12$
= 0.17
23 α . $P(X = 2) = P(2 \le x < 3) - P(1 \le x < 2)$
= 0.39 - 0.19
= 0.2
b. $P(X > 3) = 1 - 0.67 = 0.33$
c. $P(2 \le x \le 3) = 0.97 - 0.19 = 0.78$

 $d.P(1< x< 5) = P(3 \le x \le 4) = 0.91 - 0.39 = 0.53$

25.
$$P(Y=0) = P(B) = p$$

 $P(Y=1) = P(GB) = (1-p)p$
 $P(Y=2) = P(GGB) = (1-p)^{2}p$
 $P(Y=y) = \begin{cases} (1-p)^{y}p & y = 0,1,2,3,... \\ 0 & otherwise \end{cases}$

