Digital Assignment - 2

(ii) Probability at lang landing at plane on each runeway is given,

rw1: 2/g
rw2: 1/6

rw3: 11/18

does not effect others, that's www. two

b) key & companents:

n = 6 (number of planes)

K=3 (number of RW)

Probabilities,

P1=2/9, P2=1/6, P3=11/18

C)
$$P(x_1=2, x_2=1, x_3=3) = \frac{6!}{2! \cdot 1! \cdot 3!} \left(\frac{2}{9}\right)^2 \cdot \left(\frac{1}{6}\right)^1 \cdot \left(\frac{11}{8}\right)^3$$

= 60x 4 x 1 x 1331
B832

2 0-11

Griven Probabilities:

P (air) = 0-4

P (bM) = 0.2

P (am) = 0-3

P (thow'n) = 0.1

total delegady= 9

air = 3

bm = 2 3

am = 1

tronin = 2

$$2-p(x_1=3, x_2=3, x_3=1, x_4=2)$$

$$= \frac{9!}{3!3!1!2!} - (0-4)^3 : (0-2)^3 \cdot (0-3)^1 - (0-4)^2$$

$$= \frac{36288^{\circ}}{72} \times 0.064 \times 0.008 \times 0.35 \times 0.001$$