Ex!- A RV X las followy probability distribution:

7	0	1 1	2	] ]	4	5	1 6 7
P(X)	D	K	210	21c	312	k2/	262/7K2HC

find 0 K

$$501$$
  $0$   $i$   $p(x) = 1$   $7 - m \cdot f$ 

$$10k^{2} + 9k = 1$$
 $10k^{2} \neq 9k - 1 = 0$ 

$$p(x, 36) = p(6) + p(3) = 0.02 + 0.17 = 0.19$$

$$p(0) + p(3) + p(3) + p(4) + p(5)$$

(1))
$$\begin{cases}
6 & 1 & 1 \leq 0 \\
6 & 1 & 1 \leq 1 \\
0 & 3 & 2 \leq 2 \\
0 & 87 & 2 \leq 4 \\
0 & 87 & 2 \leq 4 \\
0 & 83 & 3 \leq 6
\end{cases}$$

$$\frac{p(A|A)}{p(B)} = \frac{p(A-n)n}{p(B)} = \frac{p(1.(< x < 4.1) n) p(x) y}{p(n > 2)}$$

$$p(3) + p(4)$$

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Sol":

P(the witness see blue | the Car is blue)

P(the Car is blue | the witness see blue)

Let Wb = 11 without see a blue taxi

Wg = 11 without see a geen com'

Tb = 11 Taxi is blue'

Tg = 1 Taxi is green'

P (Tb/Wb) = P(Nb/Tb). P(Tb)

T(Wb)

Radon Paxi To 0.01 0.99

O.99 O.99

Withrest Wp Wg Wg Wg

See

$$P(T_{1}) = 0.01 \qquad P(T_{4}) = 0.99$$

$$P(W_{1}|T_{5}) = 0.99 \qquad P(W_{5}|T_{6}) = 0.02$$

$$P(W_{5}|T_{5}) = 0.99 \qquad P(T_{5}) + P(W_{5}|T_{5}) P(T_{5})$$

$$= 0.99 \times 0.01 + 0.02 \times 0.99$$

$$= 0.99 \times 0.03$$