۱۱۷۷)

$$\frac{1}{\sqrt{\frac{v!}{v!}}} = \frac{v!}{\sqrt{\frac{v!}{v!}}}$$

$$\frac{1}{\sqrt{2}} \times \frac{\binom{7}{7}\binom{4}{6}}{\binom{5}{7}} = \frac{7}{4} \times \frac{7}{4}$$

$$\frac{1}{\sqrt{2}} \times \frac{\binom{7}{7}\binom{7}{5}}{\binom{7}{7}} = \frac{5}{\sqrt{2}} \times \frac{7}{4}$$

V in

چو ن وفت کی سره را برداشیم احتال ما هیچ مزفی عزمای د فیزی برنداشد و رم اید و

سیاه ۸

العبی عدات قبل خود سرار بردای تران ایس ایرا ما بارای م دارو دواب ب

المره بمناشه

ى ت اول يكي فوا لعد أسر.

یک سره دید، احتال مغير 0

$$\frac{\binom{1}{1}}{\binom{1}{1}} = \frac{10}{10}$$

$$\frac{1}{r} \times \frac{1}{r} \times \frac{\left(\frac{r}{r}\right) \left(\frac{u}{r}\right)}{\left(\frac{u}{r}\right)} = \frac{1}{r} \times \frac{\frac{r}{r} \times \frac{r}{r}}{\frac{2r}{r} \times \frac{r}{r}} = \frac{r}{r} \times \frac{1}{\epsilon}$$

باوس ل إ جمع B انتا-ميرون

$$\frac{1}{7} \times \frac{1}{7} \times \frac{\binom{4}{7}\binom{6}{6}}{\binom{5}{7}} = \frac{1}{7} \times \frac{\cancel{\cancel{y} \mid x \times u}}{\cancel{\cancel{\cancel{y} \mid x \times u}}} = \frac{\cancel{\cancel{y} \mid x \times u}}{\cancel{\cancel{\cancel{y} \mid x \times u}}} = \frac{\cancel{\cancel{y} \mid x \times u}}{\cancel{\cancel{\cancel{y} \mid x \times u}}} = \frac{\cancel{\cancel{\cancel{y} \mid x \times u}}}{\cancel{\cancel{\cancel{y} \mid x \times u}}} = \frac{\cancel{\cancel{\cancel{y} \mid x \times u}}}{\cancel{\cancel{\cancel{y} \mid x \times u}}} = \frac{\cancel{\cancel{\cancel{y} \mid x \times u}}}{\cancel{\cancel{\cancel{y} \mid x \times u}}} = \frac{\cancel{\cancel{\cancel{y} \mid x \times u}}}{\cancel{\cancel{\cancel{y} \mid x \times u}}} = \frac{\cancel{\cancel{\cancel{y} \mid x \times u}}}{\cancel{\cancel{\cancel{y} \mid x \times u}}} = \frac{\cancel{\cancel{\cancel{y} \mid x \times u}}}{\cancel{\cancel{\cancel{y} \mid x \times u}}} = \frac{\cancel{\cancel{\cancel{y} \mid x \times u}}}{\cancel{\cancel{\cancel{y} \mid x \times u}}} = \frac{\cancel{\cancel{\cancel{y} \mid x \times u}}}{\cancel{\cancel{\cancel{y} \mid x \times u}}} = \frac{\cancel{\cancel{\cancel{y} \mid x \times u}}}{\cancel{\cancel{\cancel{y} \mid x \times u}}} = \frac{\cancel{\cancel{\cancel{y} \mid x \times u}}}{\cancel{\cancel{\cancel{y} \mid x \times u}}} = \frac{\cancel{\cancel{\cancel{y} \mid x \times u}}}{\cancel{\cancel{\cancel{y} \mid x \times u}}} = \frac{\cancel{\cancel{\cancel{y} \mid x \times u}}}{\cancel{\cancel{\cancel{y} \mid x \times u}}} = \frac{\cancel{\cancel{\cancel{y} \mid x \times u}}}{\cancel{\cancel{\cancel{y} \mid x \times u}}} = \frac{\cancel{\cancel{\cancel{y} \mid x \times u}}}{\cancel{\cancel{\cancel{y} \mid x \times u}}} = \frac{\cancel{\cancel{\cancel{y} \mid x \times u}}}{\cancel{\cancel{\cancel{y} \mid x \times u}}} = \frac{\cancel{\cancel{\cancel{y} \mid x \times u}}}{\cancel{\cancel{\cancel{y} \mid x \times u}}} = \frac{\cancel{\cancel{\cancel{y} \mid x \times u}}}{\cancel{\cancel{\cancel{y} \mid x \times u}}}} = \frac{\cancel{\cancel{\cancel{y} \mid x \times u}}}{\cancel{\cancel{\cancel{y} \mid x \times u}}}} = \frac{\cancel{\cancel{\cancel{y} \mid x \times u}}}{\cancel{\cancel{\cancel{y} \mid x \times u}}}} = \frac{\cancel{\cancel{\cancel{y} \mid x \times u}}}}{\cancel{\cancel{\cancel{y} \mid x \times u}}}} = \frac{\cancel{\cancel{\cancel{y} \mid x \times u}}}}{\cancel{\cancel{\cancel{y} \mid x \times u}}}} = \frac{\cancel{\cancel{\cancel{y} \mid x \times u}}}}{\cancel{\cancel{\cancel{y} \mid x \times u}}}} = \frac{\cancel{\cancel{\cancel{y} \mid x \times u}}}}{\cancel{\cancel{\cancel{y} \mid x \times u}}}} = \frac{\cancel{\cancel{\cancel{y} \mid x \times u}}}}{\cancel{\cancel{\cancel{y} \mid x \times u}}}} = \frac{\cancel{\cancel{\cancel{y} \mid x \times u}}}}{\cancel{\cancel{\cancel{y} \mid x \times u}}}} = \frac{\cancel{\cancel{\cancel{y} \mid x \times u}}}}{\cancel{\cancel{\cancel{y} \mid x \times u}}}} = \frac{\cancel{\cancel{\cancel{y} \mid x \times u}}}}{\cancel{\cancel{\cancel{y} \mid x \times u}}}} = \frac{\cancel{\cancel{\cancel{y} \mid x \times u}}}}{\cancel{\cancel{\cancel{y} \mid x \times u}}}} = \frac{\cancel{\cancel{\cancel{y} \mid x \times u}}}}{\cancel{\cancel{\cancel{y} \mid x \times u}}}} = \frac{\cancel{\cancel{\cancel{y} \mid x \times u}}}}{\cancel{\cancel{\cancel{y} \mid x \times u}}}} = \frac{\cancel{\cancel{\cancel{y} \mid x \times u}}}}{\cancel{\cancel{\cancel{y} \mid x \times u}}}} = \frac{\cancel{\cancel{\cancel{y} \mid x \times u}}}}}{\cancel{\cancel{\cancel{y} \mid x \times u}}}} = \frac{\cancel{\cancel{\cancel{y} \mid x \times u}}}}{\cancel{\cancel{\cancel{y} \mid x \times u}}}} = \frac{\cancel{\cancel{\cancel{y} \mid x \times u}}}}{\cancel{\cancel{\cancel{y} \mid x \times u}}}} = \frac{\cancel{\cancel{\cancel{y} \mid x \times u}}}}{\cancel{\cancel{\cancel{y} \mid x \times u}}}} = \frac{\cancel{\cancel{\cancel{y} \mid x \times u}}}}{\cancel{\cancel{\cancel{y} \mid x \times u}}}} = \frac{\cancel{\cancel{\cancel{y} \mid x \times u}}}}{\cancel{\cancel{\cancel{y} \mid x \times u}}}} = \frac{\cancel{\cancel{\cancel{y} \mid x \times u}}}}{\cancel{\cancel{\cancel{y} \mid x \times u}}}} = \frac{\cancel{\cancel{\cancel{y} \mid x \times u}}}}{\cancel{\cancel{\cancel{y} \mid x \times u}}}} = \frac{\cancel{\cancel{\cancel{y} \mid x \times u}}}}{\cancel{\cancel{\cancel{y} \mid x \times u}}}} = \frac{\cancel{\cancel{\cancel{y} \mid x \times u}}}}{\cancel{\cancel{\cancel{y} \mid x \times u}}}} = \frac{\cancel{\cancel{\cancel{y}$$

(D)

P: 1

A:
$$\frac{1}{r} \times \frac{1}{r} \times \frac{\binom{\omega}{r}}{\binom{\gamma}{r}} = \frac{\omega \times \mathcal{E}}{9 \times \mathcal{K}} \times \frac{1}{2} = \frac{\omega}{14} \times \frac{1}{2}$$

$$B: \frac{1}{2} \times \frac{\binom{n}{r}}{\binom{n}{r}} = \frac{1}{2} \times \frac{\alpha \times x}{x \times v} = \frac{1}{2} \times \frac{1}{7}$$

$$-1 \Rightarrow \frac{1}{\xi} \left(\frac{1}{1} + \frac{10}{11} + \frac{1}{11} + \frac{1}{11} + \frac{1}{11} \right) = \frac{1}{\xi} \left(\frac{1}{11} + \frac{70}{11} \right) = 0/T$$

مكي جعيد ما انتي بو كياك از درون أن انتياب اكر أن ك طلا بان احتيال الله كمد ديد أن حجيد منز فلا با

$$0 = \frac{14}{3} = \frac{1}{6} \times \frac{1}{6} + \frac{1}{6} \times \frac{1}{6} = \frac{1}{6} = \frac{1}{6} \times \frac{1}{6} = \frac{1}{6} = \frac{1}{6} \times \frac{1}{6} = \frac{1}{6} =$$

ا دا م در صفحہ معر

$$P(x|spam) = \frac{P(x)spam)}{N(spam)} = \frac{4}{V}$$

$$P(x'|Spam) = \frac{1}{v}$$

$$P(x'| spam') = \frac{r}{r}$$

$$P(Spam|X) = P(Spam) \times P(X|Spam) = \frac{1}{P(X)} \times \frac{4}{P(X)} = \frac{1}{P(X)} \times \frac{4}{1}$$

$$P(SPam'|x) = \frac{P(SPam') \times P(x \mid SPam')}{P(x)} = \frac{F(x)}{P(x)} = \frac{1}{P(x)} \times \frac{1}{F(x)}$$

=>
$$P(SPam|X) = \frac{4}{\sqrt{1}}$$

 $P(SPam'|X) = \frac{1}{\sqrt{1}}$

$$P(seam|x') = \frac{P(seam)xP(x'|seam)}{P(x')} = \frac{\frac{1}{10}x\frac{1}{10}}{P(x')} = \frac{1}{P(x')} \times \frac{1}{10}$$

$$P(sPam'|x') = \frac{P(sPam') \times P(x'|sPam')}{P(x')} = \frac{\frac{\Gamma}{\Gamma} \times \frac{\Gamma}{\Gamma}}{P(x')} = \frac{\Gamma}{10} \times \frac{1}{P(x')}$$

$$= \frac{1}{P(y_9Y)} \times \frac{V}{I_9} \times \frac{P(X \cap SPam)}{P(SPam)} \times \frac{P(Y \cap SPam)}{P(SPam)} = \frac{1}{P(x_9Y)} \times \frac{X}{X} \times \frac{X}{X} \times \frac{X}{X} \times \frac{X}{X} = \frac{P(X_9Y') \times V}{P(X_9Y') \times V}$$

$$= \frac{1}{P(x_9 Y')} \times \frac{1}{I_0} \times \frac{1}{y} \times \frac{1}{r} = \frac{1}{P(x_9 Y')} \times \frac{1}{r_0}$$

$$P(SPam|X',Y) = \frac{P(SPam)x P(x',Y|SPam)}{P(x',Y)} = \frac{1}{P(x',Y)} \times \frac{V}{10} \times \frac{V}{10}$$

$$= \frac{1}{P(y'y)} \frac{y}{\omega} \times \frac{1}{x'} \times \frac{1}{y} \times \frac{x}{y} = \frac{1}{P(x'y)} \times \frac{1}{r'6}$$

$$= \frac{1}{P(x',y)} \times \frac{r}{10}$$

$$P(spam|x9Y) = \frac{P(spam) \times P(x9Y|spam)}{P(x9Y)} = \frac{1}{P(x9Y)} \times \frac{V}{10} \times P(x|spam) \times P(Y|spam)$$

$$= \frac{1}{P(x_0Y)} \times \frac{\cancel{x}}{\cancel{x}} \times \frac{\cancel{y}}{\cancel{x}} \times \frac{\cancel{y}}{\cancel{y}} = \frac{1}{P(x_0Y)} \times \frac{\cancel{y}}{\cancel{x}_0}$$

$$= \frac{1}{P(x)Y} \times \frac{X}{X} \times \frac{1}{X} \times \frac{X}{Y} = \frac{1}{P(x_0Y)} \times \frac{1}{10}$$

$$\frac{1}{P(x_9Y)}\left(\frac{41}{Y\alpha} + \frac{V}{I_{3}\alpha}\right) = \frac{1}{P(x_9Y)} \frac{\varphi}{I_{9}\alpha} = 1 = 1 P(x_9Y) = \frac{\alpha}{T_1}$$

(?

(- ~ lal

ب احتال spam بدن بیشتر اس. است دیر خلا صرترس نوسم : نفست مشر خلا صرترس نوسم

11)

P(5| the 9 C' 9 m 9 f 9 i 9 d'9t) = 1 (0/0 Ta)

س احنال ۶۶am النه سيتدات.

سے ادام

س افتار not spam النه اس

P(s) the oco m'of f'oi'odot) =
$$\frac{1}{P(n)}$$
 x (o/oolve)
$$P(s')$$
 the oco, m'of oi'odot) = $\frac{1}{P(n)}$ x (o/olve)

· CI ~ OST hot sparling of

(a)
$$P(s|the gc'gm'gfgigdgt) = \frac{1}{P(g)}(g/ggiff)$$

 $P(s'|the gc'gm'gfgigdgt) = \frac{1}{P(g)}(g/ggiff)$

· - 1 rim ors not spam dies ~

Data	Stree?	Strees description	Complete set	Real Label	
11	1).	1		
11	1	\ \	1	1	
۱۲	Ö	0	0.	0	
1{	D	O	0	0	
14	1	١	0	0	
				- /	
	1	'			

ب معرب معرف ساس از رئے کی صاحب اندازہ کا علی بزرگ بی و صبحبین اجزای آن کی بررگ بی و صبحبین اجزای آن کی بررگ بی میں میں اجزای آن میں اسلام آندن میں اسلام آندن المنا سالام س

()