D1	Happy(h)	love happy happy joy smile angry	4
D2	Happy(h)	cry happy joy love happy	2
D3	Happy(h)	good happy love cry love	
D4	Happy(h)	pain love happy joy love	J
D5	Unhappy(~h)	lowe angry pain pain	کّ
D6	Unhappy(~h)	love angry pain	l (i
D7	Unhappy(~h)	angry angry pain	J
D8	??	cry love angry pain	

$$P(h) = \frac{4}{7} P(nh) = \frac{3}{7}$$

& Conditional Probabilities

Class h

Class
$$\sim h$$

P(Love $|h| = \frac{6}{21}$

P(pain $|h| = \frac{4}{10}$

$$P(Joy1h) = \frac{3}{21}$$
 $P(Joy1h) = 0$

$$P(smi|elh) = \frac{1}{21}$$
 $P(smi|elh) = 0$

$$P(angrylh) = \frac{1}{2}$$
 $P(angrylh) = \frac{4}{15}$

$$P(happylh) = \frac{6}{27}$$
 $P(happylh) = 0$

$$P(cry | h) = \frac{2}{2}$$

$$P(cry | h) = 0$$

 $\triangle P(h|d8) = P(h) * (P(crylh) * P(lovelh) * P(angrylh) * P(pain|h)$

$$=\frac{4}{7}*(\frac{2}{21}*\frac{1}{21}) \approx 3.53 \times 10^{-5}$$

> zero condition

$$\frac{1}{10}m^{-1}$$
P(love|vh) = $\frac{2+|x|^{4}}{|y|^{4}}$ = $\frac{9}{44}$
P(cry|vh) = $\frac{0+|x|^{4}}{|y|^{4}}$ = $\frac{17}{44}$
P(angry|vh) = $\frac{4+|x|^{4}}{|y|^{4}}$ = $\frac{17}{44}$
P(pain|vh) = $\frac{4+|x|^{4}}{|y|^{4}}$ = $\frac{17}{44}$

$$P(vh|d8) = \frac{3}{7} \times \frac{9}{44} \times \frac{17}{44} \times \frac{17}{44} = 0.000297$$