Answer: 125 deded 6~10 cebeb 11~15 Cdbdc 16~20 bbcdd

Solution: 1 (d) satisfy the three condition of ML.

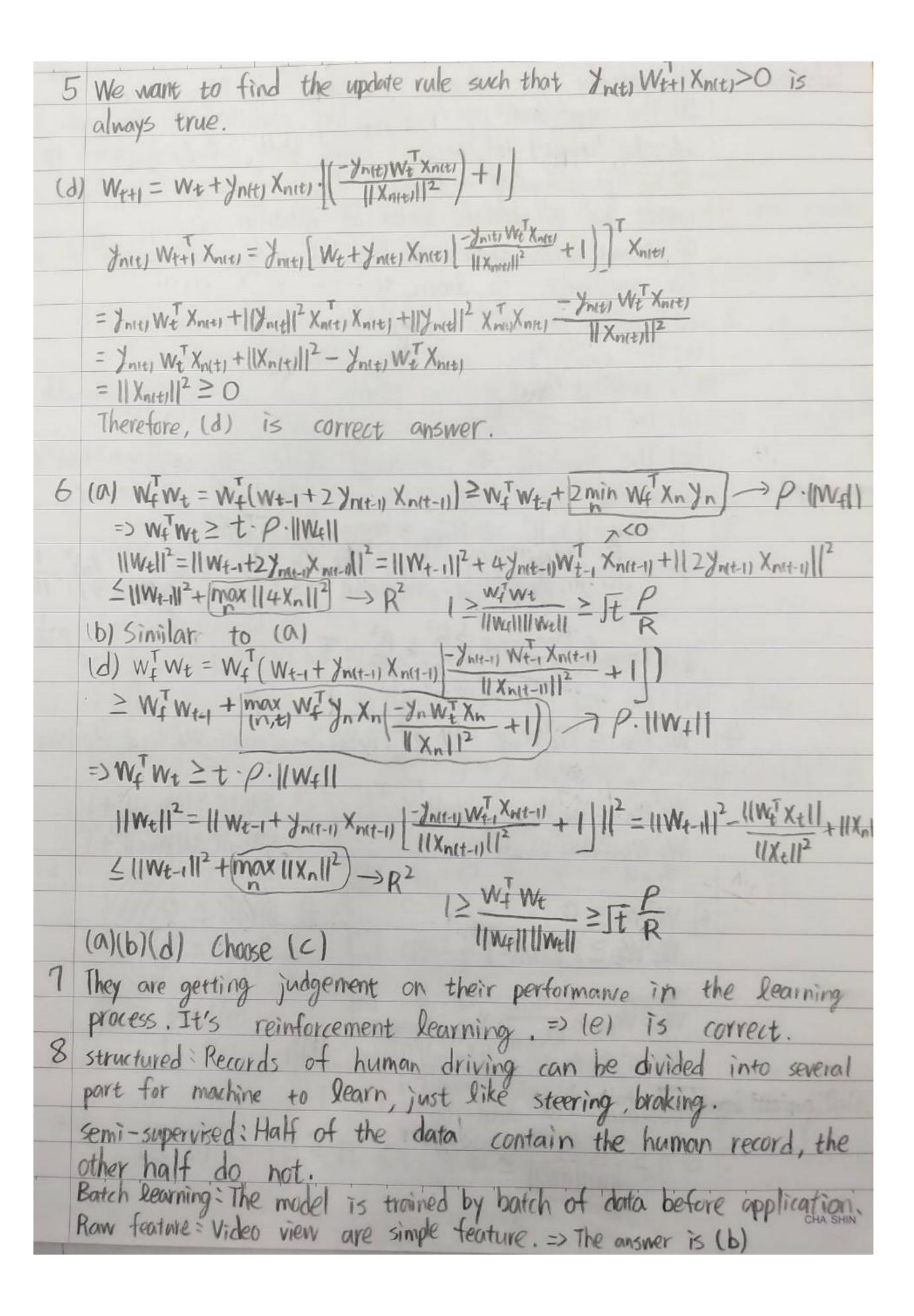
① The appearance of mango has something to do with its quality, so the images of mango exist some underlying pottern to be learned. @ No programmable definition since the size or color of mango cannot be a absolute factor of quality. 3 Without doubt, there are lots of image and quality of mango (data) for machinge to learn. 2 (a) Flipping coins is independent to spam emails. (b) The email are not classified by machine. (d) There is no learning process since we use programmable definition.

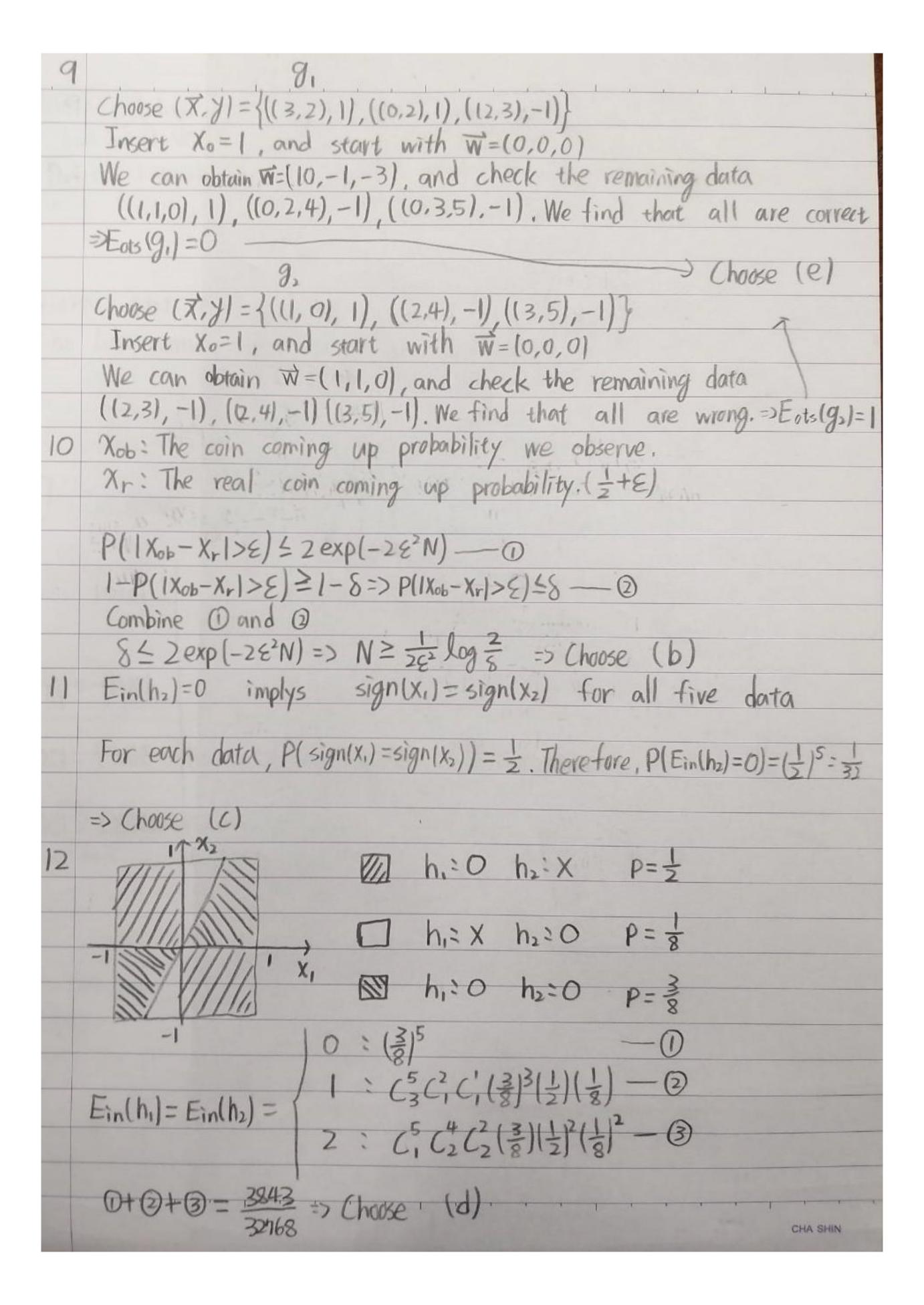
(d) The rule is determined by human. (e) The maching is "learning" since it updates the function throughout the whole process. =>(e) is the answer. $R^2 = \frac{1}{2} \frac{|X_1|^2}{|X_2|^2} = \frac{1}{2} \frac{|X_1|^2}{|X_2|^2} = \frac{1}{16} \frac{|X_2|^2}{|X_2|^2} = \frac{1}{1$ $\rho^{2} = \left(\frac{min}{n} \frac{1}{n} \frac{w_{f}}{||w_{f}||} x_{n}\right)^{2} = \frac{min}{n} \left(\frac{w_{f}}{||w_{f}||} x_{n}\right)^{2} = \frac{min}{n} \left(\frac{w_{f}}{||w_{f}||} \frac{x_{n}}{4}\right)^{2} = \frac{1}{16} \frac{min}{n} \left(\frac{w_{f}}{||w_{f}||} \frac{x_{n}}{4}\right)^{2}$ Tnew < Rnew = 16R2 = R2 = T 4 W+W+ = W+W++ min | W+JnH-11XnH-11= W+W++ P. ||W+|| 11Wt112=11Wt-1112+1 WEWA > WENT P. 11WELL $||W_{t-1}||^2 \ge ||W_{t-2}||^2 + |$ WIWENZ WEWLZ+P. IIWEII

 $\frac{1}{W_{t}^{T}W_{t} \geq \widehat{\rho} ||W_{t}|| \cdot T} \qquad \frac{1}{||W_{t}||^{2} \geq 0}$ $\frac{1}{||W_{t}||^{2} \geq \widehat{\rho} ||W_{t}|| \cdot T} \qquad \boxed{1} \qquad \boxed{1} \qquad \boxed{1} \qquad \boxed{2}$

 $W_{t} = W_{t-1} + \frac{1}{\|X_{n(t-1)}\|} \int_{n(t-1)} X_{n(t-1)}$ $= \sum \|W_{t}\|^{2} \ge \|W_{t-1}\|^{2} + \frac{\|X_{n(t-1)}\|^{2}}{\|X_{n(t-1)}\|^{2}} = \|W_{t-1}\|^{2} + \|W_{$

Combine ① and ② $\Rightarrow 1 \ge \frac{W_t^T W_t}{\|W_t\| \|W_t\|} \ge \int_{T} \widehat{\rho} = \int_{T} \widehat{\rho} \le 1 \Rightarrow \int_{T} \widehat{\rho} \le 1 \Rightarrow \int_{T} \widehat{\rho} = \int_{T} \widehat{\rho}$





13	P(BAD D for H) = P(BAD D for h.) or P(BAD D for h.) or P(BAD D for h.) = P(BAD D for h.) or P(BAD D for h.) or P(BAD D for h.) \(\text{P(BAD D for h.)} + P(BAD D for h.) + \cdots + P(BAD D for h.) \(\text{P(BAD D for h.)} + P(BAD D for h.) + \cdots + P(BAD D for h.) \(\text{P(BAD D for h.)} + P(BAD D for h.) \(\text{P(BAD D for h.)} + P(BAD D for h.) \(\text{P(BAD D for h.)} + P(BAD D for h.) \(\text{P(BAD D for h.)} + P(BAD D for h.) \(\text{P(BAD D for h.)} + P(BAD D for h.) \(\text{P(BAD D for h.)} + P(BAD D for h.) \(\text{P(BAD D for h.)} + P(BAD D for h.) \(\text{P(BAD D for h.)} + P(BAD D for h.) \(\text{P(BAD D for h.)} + P(BAD D for h.) \(\text{P(BAD D for h.)} + P(BAD D for h.) \(\text{P(BAD D for h.)} + P(BAD D for h.) \(\text{P(BAD D for h.)} + P(BAD D for h.) \(\text{P(BAD D for h.)} + P(BAD D for h.) \(\text{P(BAD D for h.)} + P(BAD D for h.) \(\text{P(BAD D for h.)} + P(BAD D for h.) \(\text{P(BAD D for h.)} + P(BAD D for h.) \(\text{P(BAD D for h.)} + P(BAD D for h.) \) \(\text{P(BAD D for h.)} + P(BAD D for h.) \(\text{P(BAD D for h.)} + P(BAD D for h.) \(\text{P(BAD D for h.)} + P(BAD D for h.) \) \(\text{P(BAD D for h.)} + P(BAD D for h.) \(\text{P(BAD D for h.)} + P(BAD D for h.) \(\text{P(BAD D for h.)} + P(BAD D for h.) \(\text{P(BAD D for h.)} + P(BAD D for h.) \) \(\text{P(BAD D for h.)} + P(BAD D for h.) \(\text{P(BAD D for h.)} + P(BAD D for h.) \(\text{P(BAD D for h.)} + P(BAD D for h.) \) \(\text{P(BAD D for h.)} + P(BAD D for h.) \(\text{P(BAD D for h.)} + P(BAD D for h.) \(\text{P(BAD D for h.)} + P(BAD D for h.) \) \(\text{P(BAD D for h.)} + P(BAD D for h.) \(\text{P(BAD D for h.)} + P(BAD D for h.) \(\text{P(BAD D for h.)} + P(BAD D for h.) \(\text{P(BAD D for h.)} + P(BAD D for h.) \) \(\text{P(BAD D for h.)} + P(BAD D for h.) \(\text{P(BAD D for h.)} + P(BAD D for h.) \(\text{P(BAD D for h.)} + P(BAD D for h.) \) \(\text{P(BAD D for h.)} + P(BAD D for h.) \(\text{P(BAD D for h.)} + P(BAD D for h.) \(P(BAD D for h				
	≤ d.2 exp(-282N)				
	=> C = d => Choose (b)				
14		Green	0		
	A	2,4,6	1,3,5	3 shows up two times (B,D) in the green column, and so does 4.	
	В	2,3,4	1,5,6		
	C	6	1~5	=> Choose (d)	
	D	2,3,5	1,4,6		
15	Types of dice among 5 dices		Combination	number of each combination	Total number
		1	A,B,C,D	(5)	1x4 = 4
			AB, AL, AD, BD	(4,1)(3,2)(2,3)(1,4)	30x4=120
			ABD	(3,1,1)(2,2,1)(2,1,2) (1,3,1)(1,1,3)(1,2,2)	150X = 150
	4-	+120+150 4 ⁵	$=\frac{274}{1024}=$	Choose (C)	