DS5110/CS5501 Caching Policy Worksheet

Proble	em 1	FIFO, size 2:	1, 2 (full), 3, take out 1, put in 1 (full)	recent		
Data.	Hit?					
1 [1 miss, starting with an empty state					
2	miss					
1	hit, because it's there Hit ratio:1/5 = 0.2					
3	miss,d					
1	miss					
_						
Proble	em 2	LRU, size 2:	A, B (full)	recent		
Data. Hit?						
A [miss					
В	miss					
A [hit	Hit ratio	o:			
c [
A [miss hit					
^ [
Problem 3		LRU, size 3:	W, X, Y, evict W and add Z	recent		
Data.	Hit?					
w [miss					
W [hit					
Χ [miss	Hit ratio	o:4/8 = 0.5			
Υ [miss	miss Miss latency: 20 ms				
Υ [hit	it Hit latency: 0.1 ms				
Z [miss	miss Average latency:				
Υ [hit					
x [

Problem 4	LRU, size 4:	recent
Data. Hit? 3	Hit ratio	
Problem 5	LRU, size 5:	recent
Data. Hit? 3	Hit ratio	