Minimization

1. $(q_0, q_4), (q_1, q_4), (q_2, q_4), (q_3, q_4), (q_5, q_4)$ are distinguishable, as q_4 is an accepting state while others are not.

2. $(q_0, q_5), (q_1, q_5), (q_2, q_5), (q_3, q_5)$ are distinguishable, as on input b, from q_5 we go to q_4, whereas from q_0, q_1, q_2, q_3 we go to q_2, q_3, q_5, and $(q_4, q_2), (q_4, q_3), (q_4, q_5)$ are distinghishable.

3. $(q_0, q_2), (q_1, q_2), (q_0, q_3), (q_1, q_3)$ are distinguishable, as from q_0, q_1 on input b we go to q_2, q_3, whereas from q_2, q_3 on input b we go to q_5, and (q_2, q_5) and (q_3, q_5) are distinguishable.

	q_0	q_1	q_2	q_3	q_4
q_1					
q_2	X3	X3			
q_3	X3	X3			
q_4	X1	X1	X1	X1	
q_5	X2	X2	X2	X2	X1

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