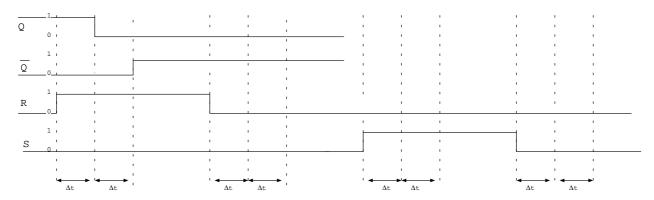
Name: _____

SR Latch

1. Complete the timing diagram below to show the operation of the SR latch:



(Here is an extra diagram in case you mess up the first one.)

	1		1	i I		ı	1	i i	ı ı	i i	1	1 1
	0 , .		1			' '	1	1	1 1	1		! !
Q	_0			' <u>'</u>		<u>. </u>	1	, 1 1	' ! !	1		, 1 1
R	1					 	1	1 1 1	1 1 1	1 1 1	1	1 1 1
	1		 	1		1 1 1	1	1	ı ı	1	1	1
<u>S</u>	0					<u> </u>		1	! ! !		1	1
	Δt	Δ t		Δt	Δt	' - 	Δt	Δt	! !	Δt	Δt	ı J

2. Complete the characteristic table for the SR latch

R	S	Q_n	Q_{n+1}	\bar{Q}_{n+1}
0	0	0		
0	0	1		
0	1	0		
0	1	1		
1	0	0		
1	0	1		
1	1	0		
1	1	1		

