CSE 562 - Assignment 5

UBIT: **(1 Point)**   **Due: 04/09/2014**

Instructions:
1. **Write your answers clearly and legibly.**
2. **All assumptions have been given to you, if you are making any further assumptions (highly unlikely) state them.**
3. **Print this assignment and write answers in the space provided.**
4. **By handing in this assignment, you attest that this work was done by you and was done individually.**

Q: For each one of the following schedules decide whether

- They are **conflict** serializable

- They are **view** serializable

- They can be produced by a Two Phase Lock (2PL) scheduler

And check in the table below all entries that apply. Justify your answers in a concrete way.

For example, if a schedule is 2PL **show** a series of lock/unlock operations that are compatible with the 2PL rules (**you can use the empty lines of the schedules to place lock/unlock operations**). If it is serializable, give an acyclic graph. Answers of the form "it is serializable because I can see that I can swap the operations" will not get full credit. Assume that shared locks can be used if in this way you can make a schedule 2PL.

Schedule (1) – (33 Points)

T1	T2	T3
		R(d)
W(a)		

	R(b)	
		W(d)
W(b)		
	R(d)	

Conflict Serializable	View Serializable	2PL

Justification for Schedule (1):

Schedule (2) – (33 Points)

T1	T2	T3
W(a)		
	R(b)	
		W(d)
W(b)		
	R(d)	
		W(d)

Conflict Serializable	View Serializable	2PL

Justification for Schedule (2):

Schedule (3) – (33 Points)

T1	T2	T3
		R(d)
W(a)		
	R(b)	
W(b)		
	R(d)	
		W(d)

Conflict Serializable	View Serializable	2PL

Justification for Schedule (3):

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