Ways to Go

Savannah lives in Titahi Bay, 5 minutes' walk from the nearest bus stop, which is in Richard Street. She catches the bus and train to Wellington each weekday to attend university. It takes her at least 20 minutes to get from the railway station to the university. Her first lecture is at 8 a.m. on Monday, Wednesday, and Friday and at 10 a.m. on Tuesday and Thursday.

Bus Route	Richard Street	Top of Gloaming Hill	Elsdon–Te Hiko St	Porirua Station
	Bus dep.	Bus dep.	Bus dep.	Bus arr.
1	6.15	6.23	6.28	6.40
1	6.40	6.48	6.53	7.05
1	7.00	7.08	7.13	7.30
1	7.20	7.28	7.33	7.45
1	7.40	7.48	7.53	8.10
1	7.50	7.58	8.03	8.15
1	8.00	8.08	8.13	8.30
1	8.30	8.38	8.43	9.00
1	9.00	9.08	9.13	9.30
1	9.30	9.38	9.43	10.00

1. a. What is the latest bus Savannah can catch to be at the university at 8 a.m.?
    b. What time does this bus arrive at Porirua station?
    c. How long does the connecting train take from Porirua to Wellington?
    d. How long is her journey from Richard Street to Wellington?

2. a. What is the latest bus Savannah can catch on a Tuesday or Thursday?
    b. If she catches this bus, what time will she arrive in Wellington?
    c. How long does this journey take her?

TRAIN TIMETABLE

Porirua	Kenepuru	Linden	Tawa	Redwood	Takapu Rd	Kaiwharawhara	Wellington	
06:27	06:29	06:31	06:33	06:35	06:36	b06:43	06:48	
06:41	..	..	..	..	..	..	06:58	Express
06:44	06:46	06:48	06:50	06:51	06:53	b07:00	07:05	
07:08	..	..	..	..	..	..	07:27	Express
07:22	..	..	..	..	..	..	07:39	
07:25	07:27	07:29	07:32	07:33	07:35	b07:42	07:48	
07:31	..	..	..	..	..	..	07:50	Express
07:33	..	..	..	..	..	..	07:52	Express
07:41	07:43	07:45	07:48	07:49	07:51	b07:58	08:04	
07:46	..	..	..	..	..	..	08:06	Express
07:51	..	..	..	..	..	..	08:08	
07:54	07:56	07:58	08:01	08:02	08:04	b08:11	08:17	
08:11	..	..	..	..	..	..	08:28	Express
08:16	..	..	..	..	..	..	08:33	Express
08:20	08:22	08:24	08:27	08:28	08:30	b08:37	08:43	
08:34	..	..	..	..	..	..	08:51	Express
08:37	08:39	08:41	08:44	08:45	08:47	b08:54	09:00	
08:50	08:52	08:54	08:56	08:57	08:59	..	09:11	
09:14	09:16	09:18	09:20	09:21	09:23	..	09:35	Off Peak
09:34	09:36	09:38	09:40	09:41	09:43	..	09:55	Off Peak
10:08	10:10	10:12	10:14	10:15	10:17	..	10:29	Off Peak

.. Train does not stop   b Stops only to set down passengers   c Stops only to pick up passengers

Jack lives in Linden and has the same lecture times as Savannah. He uses the same train line but doesn't have to catch a bus to the station.

1. Can Jack catch the same train to Wellington as Savannah? Explain your answer.

2. a. What time would Jack have to catch a train from Linden to make sure that he has at least 20 minutes to get to university by 8 a.m.?
   b. Can Savannah connect with this train? Explain your answer.

Wellington	Kaiwharawhara	Takapu Rd	Redwood	Tawa	Linden	Kenepuru	Porirua
16:05	c16:09	16:17	16:19	16:20	16:22	16:24	16:28
16:20	c16:24	16:32	16:33	16:35	16:37	16:39	16:43
16:36	..	..	..	..	..	..	16:54
16:47	..	..	..	..	..	..	17:04
16:51	c16:55	17:02	17:04	17:06	17:08	17:10	17:13
17:02	..	..	..	..	..	..	17:20
17:04	c17:08	17:15	17:17	17:19	17:21	17:23	17:27
17:14	..	..	..	..	..	..	c17:31
17:19	..	..	..	..	..	..	17:37
17:24	c17:18	17:35	17:37	17:39	17:41	17:43	17:46

Bus Route	Porirua Station	Elsdon – Te Hiko Street	Top of Gloaming Hill	Richard Street
	Bus dep.	Bus dep.	Bus dep.	Bus dep.
1	4.30	4.40	4.45	4.55
1	4.45	4.55	5.00	5.10
1	5.00	5.10	5.15	5.25
1	5.25	5.35	5.40	5.45
1	5.40	5.50	5.55	6.05

3. Savannah likes to get home by 5.30 p.m. each evening.
   a. What is the latest train she can catch from Wellington?
   b. What time does her bus connection leave Porirua?
   c. Can Jack catch this train? Explain your answer.

4. a. If Jack wants to be in Linden by 5.30 p.m., what is the last train he can catch?
   b. Can Savannah catch this train? Explain your answer.

5. What is the last train they catch if they want to travel together and still be home by 5.30 p.m.?