

1 Section 1.2: Practice exercises 2 and Exercises 17, 19, 29, 31.

2 Section 1.3: Practice exercises 2 and 3. + Exercises 11, 19, 21.

3 This is a (very) basic illustration of recommender systems. Suppose you have 4 people (e.g., John, Mary, Karen, and Paul) who share information about their likes or dislikes of movies.

Three of them rated 4 movies (A to D) but Paul rated movies A to C only – (see table to the right). What is your best guess of Paul’s rating for title D?

	J	M	K	P
A	4	2	5	4.5
B	3	4.5	1	2
C	4	2	4	3.5
D	1	3	1	??

Hint: Express ratings for P for titles A, B, C as linear combinations of ratings of the same titles from J, M, K. Then use the same combination to rate D for Paul