Movie Recommendations   Name _____

Web Science

10 points

Use the following movie ratings to answer the questions below. Show *all* your work. You may use Excel to compute the Pearson's correlation coefficient.

	Lady in the Water	Snakes on a Plane	Just My Luck	Superman Returns	You, Me and Dupree	The Night Listener
Rose	2.5	3.5	3.0	3.5	2.5	3.0
Seymour	3.0	3.5	1.5	5.0	3.5	3.0
Puig		3.5	3.0	4.0	2.5	4.5
LaSalle	3.0	4.0	2.0	3.0	2.0	3.0
Matthews	3.0	4.0		5.0	3.5	3.0
Toby		4.5		4.0	1.0	

1. (4 pts) What rating is Matthews likely to give *Just My Luck*? Use all the critic's ratings to compute this value.

2. (3 pts) How similar are the ratings given to *Snakes on a Plane* to *You, Me and Dupree*? Use Pearson's *r* as the similarity metric. In general, what does this correlation mean about someone's opinions about these two movies?

3. (3 pts) Suppose a new critic named Burks gave the movies above the following ratings (in the same order): 3.0, 3.0, 1.0, 4.5, 2.0, 3.0. How similar is Burks to LaSalle if we used the modified Euclidian distance metric?