2.5.

Train and Test Average Log Likelihood and Average Marginal Lower Bound by Epoch when K = 2
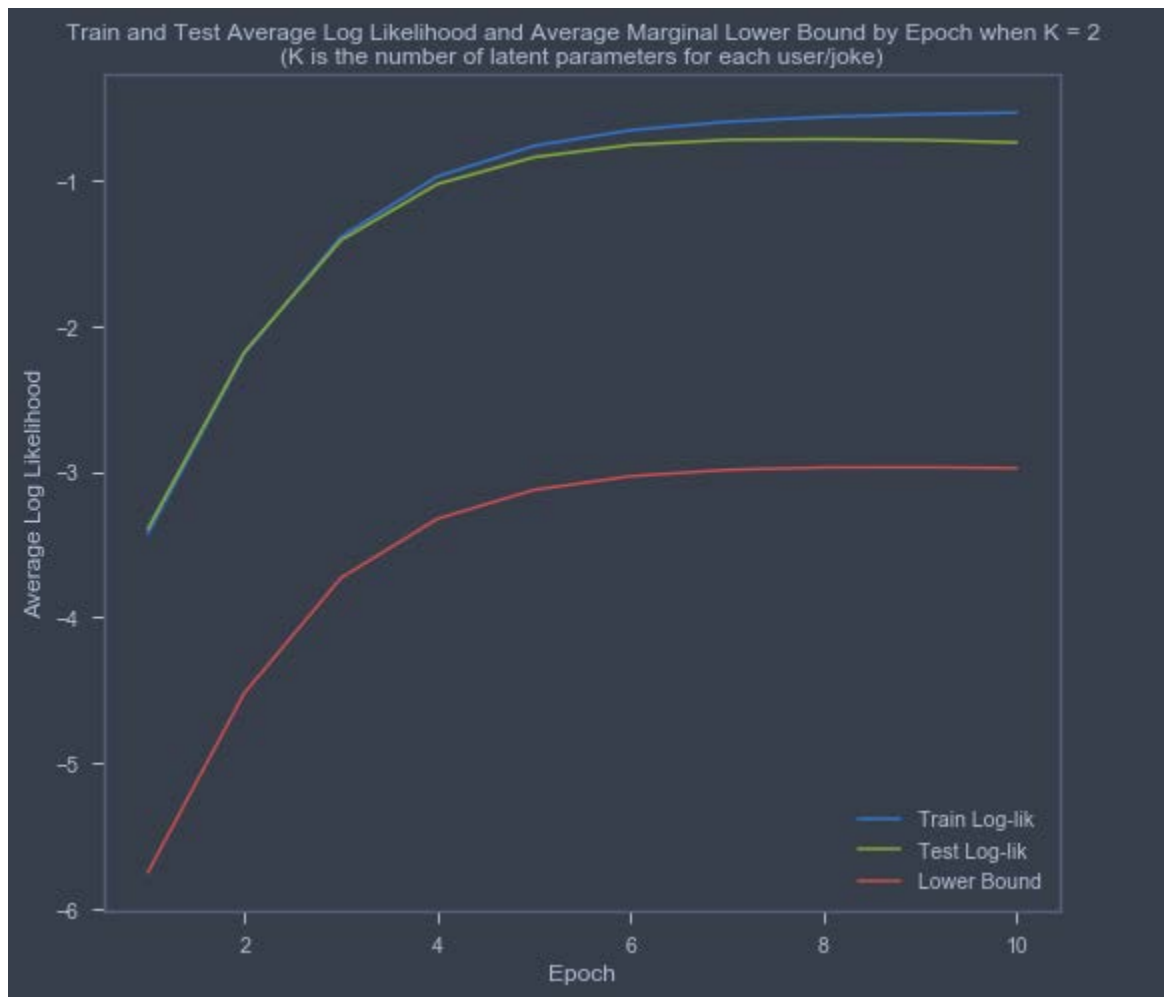(K is the number of latent parameters for each user/joke)

2.6. The shapes of the train and test average log-likelihood curves are pretty much the same-- the log-likelihoods increase as K increases. The average marginal likelihood lower bound decreases as K increases. This makes sense since increasing K increases the number of latent parameters to learn for each user and each joke.

Train and Test Average Log Likelihoods for Different Values of K
(K is the number of latent parameters for each user/joke)

Average Marginal Lower Bound for Different Values of K
(K is the number of latent parameters for each user/joke)