

**QUESTION 4** (1/1 point)

You have derived a matrix-factorization based recommendation method for movies with the latent factors "superheroes," "comedy," "horror," "romance" and "classic."

A new movie is a romantic comedy about superheroes. It has latent values $[1/3, 1/3, 0, 1/3, 0]$, meaning it is divided equally between the latent factors "superheroes," "comedy," and "romance."

Gemma's latent representation for the "superheroes," "comedy," "horror," "romance" and "classic" movie types is $[1, 4, 2, 1, 5]$ respectively.

What is Gemma's predicted rating for the new movie?

☐ 1☒ 2 ✓☐ 3☐ 4☐ 5**EXPLANATION**

To calculate Gemma's rating, multiply her latent value for each movie type with the the new movie's value for that type, and add the results. In this case, the calculation is $(1 \times 1/3) + (4 \times 1/3) + (1 \times 1/3) = 2$

You have used 1 of 2 submissions

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