1. Lecture described using 'mean normalization' to do feature scaling of the ratings. What equation below best describes this algorithm?

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$$y_{norm}(i,j) = \frac{y(i,j) - \mu_i}{\sigma_i} \quad \text{where}$$

$$\mu_i = \frac{1}{\sum_j r(i,j)} \sum_{j:r(i,j)=1} y(i,j)$$

$$\sigma_i^2 = \frac{1}{\sum_j r(i,j)} \sum_{j:r(i,j)=1} (y(i,j) - \mu_j)^2$$

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$$y_{norm}(i,j) = \frac{y(i,j) - \mu_i}{max_i - min_i} \quad \text{where}$$

$$\mu_i = \frac{1}{\sum_j r(i,j)} \sum_{j:r(i,j)=1} y(i,j)$$