

CS 559, Quiz 2

NAME:

Problem 1. (True or False)

- For a 1D Gaussian distribution, a small variance leads to a more flat bell shape.
- For a 1D Gaussian distribution, a small mean leads to a more flat bell shape.
- Rotation is a linear operator.
- A vector space can have multiple sets of basis.
- Orthogonal vectors are always linearly independent.
- Making decision using posteriors can be treated as a special case of that using losses or risks.
- Let λ_{ij} denote the loss incurred for taking action α_i when the true state is w_j . We have $\lambda_{ij} = \lambda_{ji}$. (2 points)
- Let λ_{ij} denote the loss incurred for taking action α_i when the true state is w_j . We have $\lambda_{ii} > \lambda_{ji}$. (2 points)