

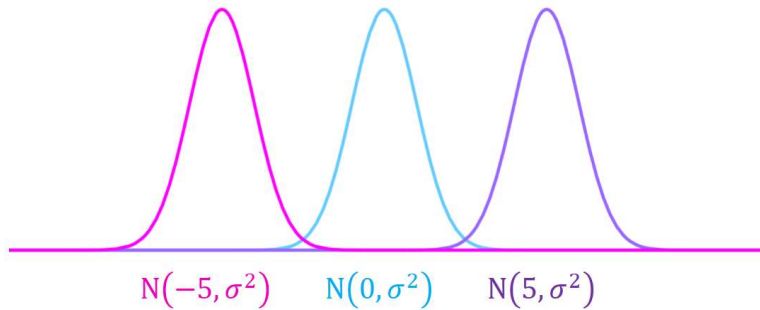
Parameters of Normal Distributions

Effect of Variation of the Defining Parameters

Effect of Variation of μ

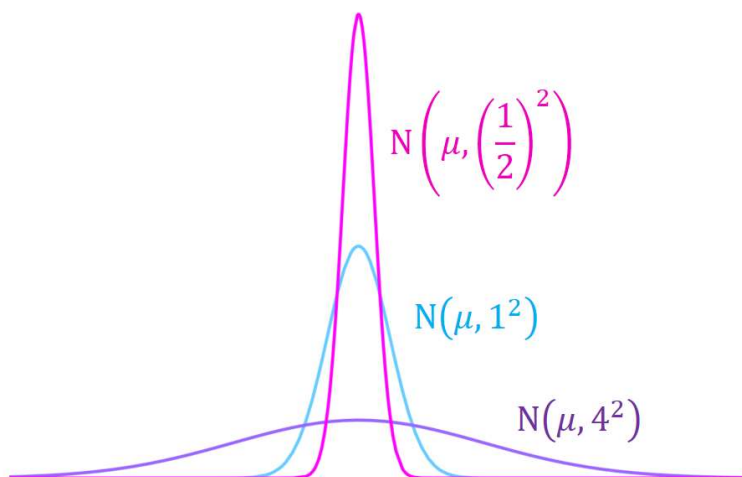
Increasing the mean translates the distribution to the right.

Decreasing the mean translates the distribution to the left.



Effect of Variation of σ

Increasing the standard deviation dilates the distribution.



Example VCAA 2000 Exam 1 Question 27

The diagram shows two normal distribution curves with means μ_1 and μ_2 and variances σ_1^2 and σ_2^2 respectively.

For these normal distribution curves $\mu_1 < \mu_2$ and $\sigma_1 < \sigma_2$.

