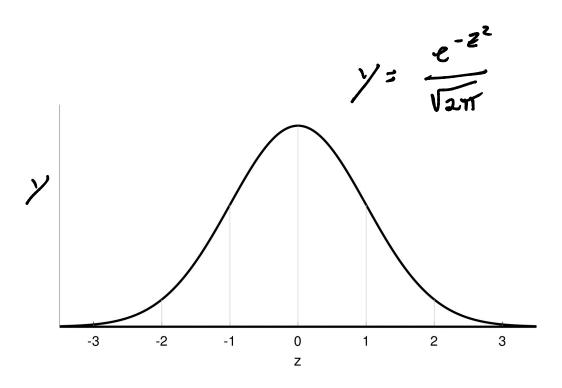
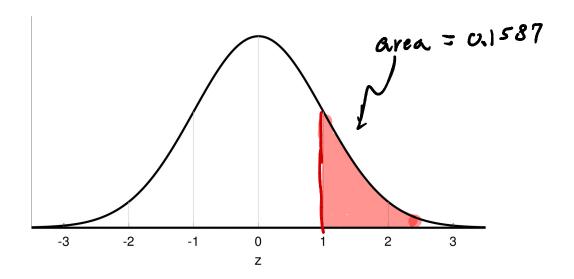
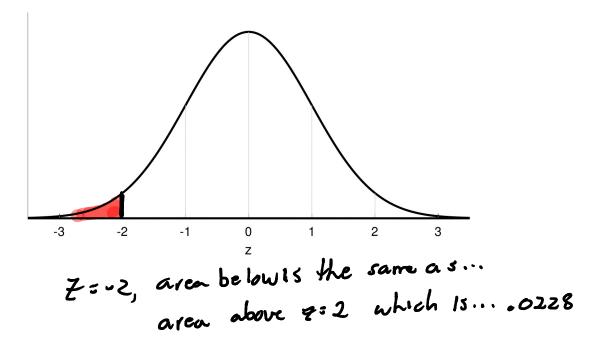
Normal distributions can be defined by their mean, m, and standard deviation, o The standard normal distribution has m:o o=1



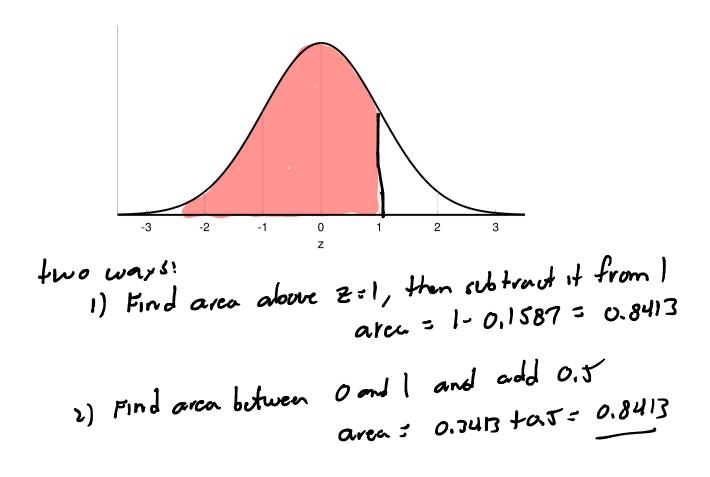
Example: find the area above z=1.



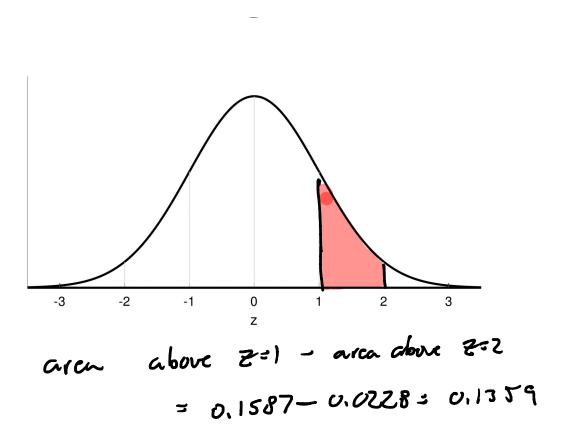
Example: What is the area under the standard normal distribution below z = -2?



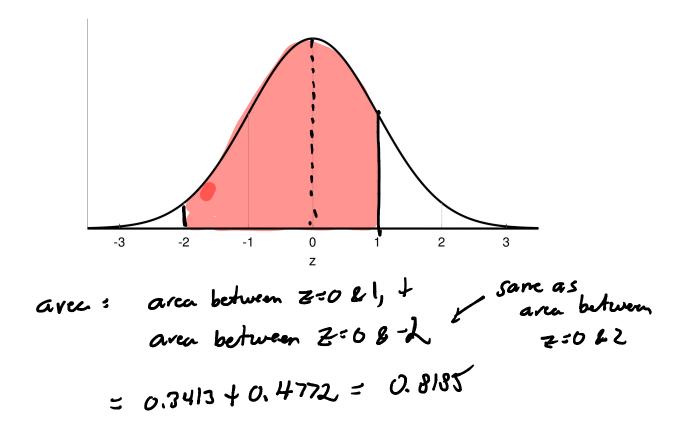
Example: Find the area under the standard normal distribution below z = 1:



Example: What is the area under the standard normal distribution between 1 and 2?

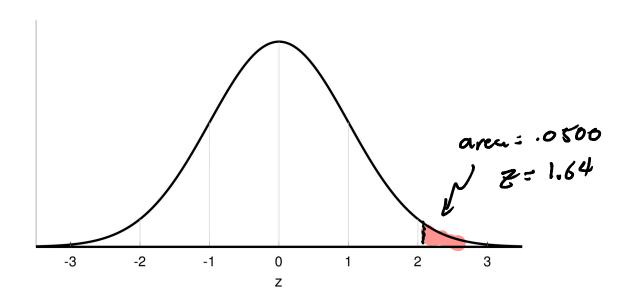


Example: What is the area under the standard normal between z = -2 and 1?

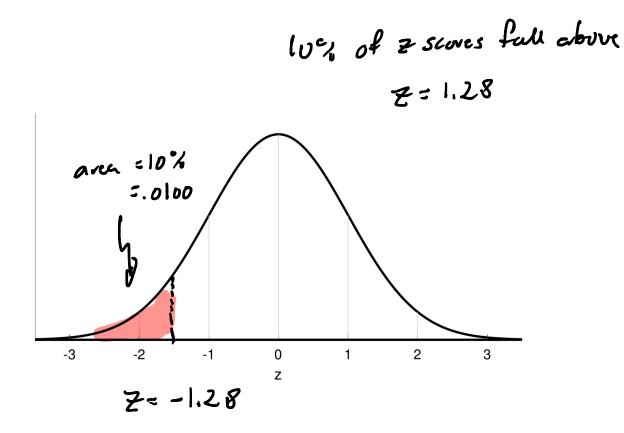


Finding z-scores from areas

Example: Find the z score for which 5% of the area under the standard normal distribution lies above.



Example: Find the value of z for which 10% of the area under the standard normal distribution lies below:



Example: Find the values of z that bracket the middle 95% of the area under the standard normal distribution.

