

Exercise 2C.1

Suppose scores on a certain standardized test are normalized so that they follow the normal distribution with mean 0 and variance 1.

- (a) What is the probability that a randomly selected exam taker gets a score greater than 2?
- (b) What is the probability that a randomly selected exam taker gets a score lower than than -3.5?
- (c) What is the probability that a randomly selected exam taker gets a score between -1 and +1?
- (d) What is the probability that a randomly selected exam taker gets a score either greater than 2 or less than -2?