# Written Assignment 7

1. Write an algorithm that will generate random variates having a Pareto distribution[[1]](#footnote-1). Show your derivation for your method.[[2]](#footnote-2)
2. Write an algorithm that will generate random variates having a Weibull distribution. Show your derivation for your method.

For each algorithm, assume that there is an available sequence {U} of iid Uniform(0,1) random numbers.

1. You may have to do some research to find information about this distribution [↑](#footnote-ref-1)
2. That is, show how you obtain the inverse cdf from the cdf or pdf. [↑](#footnote-ref-2)