**3D The Normal Normal Distribution (Z Distribution)**

1. The random variable . Write in terms of for some value :
2. The systolic blood pressure (pressure when the heart beats) of an adult population, , is modelled as a normal distribution with mean 127 and standard deviation 16.

A medical researcher wants to study adults with blood pressures higher than the 95th percentile. Find the minimum blood pressure needed for an adult to be included in her survey