Solution To Normal Distribution

Part I
1. normalcdf(17, 23, 25, 8) = 0.2426
2. normalcdf(-10000, 10. 25. 8) = 0.0304
3. normalcdf(32, 10000, 25, 8) = 0.1908
4. invNorm(0.10, 25, 8) = 14.75

Part II.
1. normalcdf(-10000,0,0,1) = 0.5
2. normalcdf(-1,1,0,1) = 0.6827
3. normalcdf(-2,2,0,1) = 0.9545
4. normalcdf(-3,3,0,1) = 0.9973

These probabilities are used in the EMPIRICAL Rule.

Part III.
1. normalcdf(120,10000,100,15) = 0.0912
2. normalcdf(110,130, 100, 15) = 0.2297
3. invNorm(0.90, 100, 15) = 119.22
4. invNorm(0.98, 100, 15) = 130.81