range	freq
(5.4, 6.4)	3
(6.4, 7.4)	1
(7.4, 8.4)	5
(8.4, 9.4)	9
(9.4, 10.4)	9
(10.4, 11.4)	3

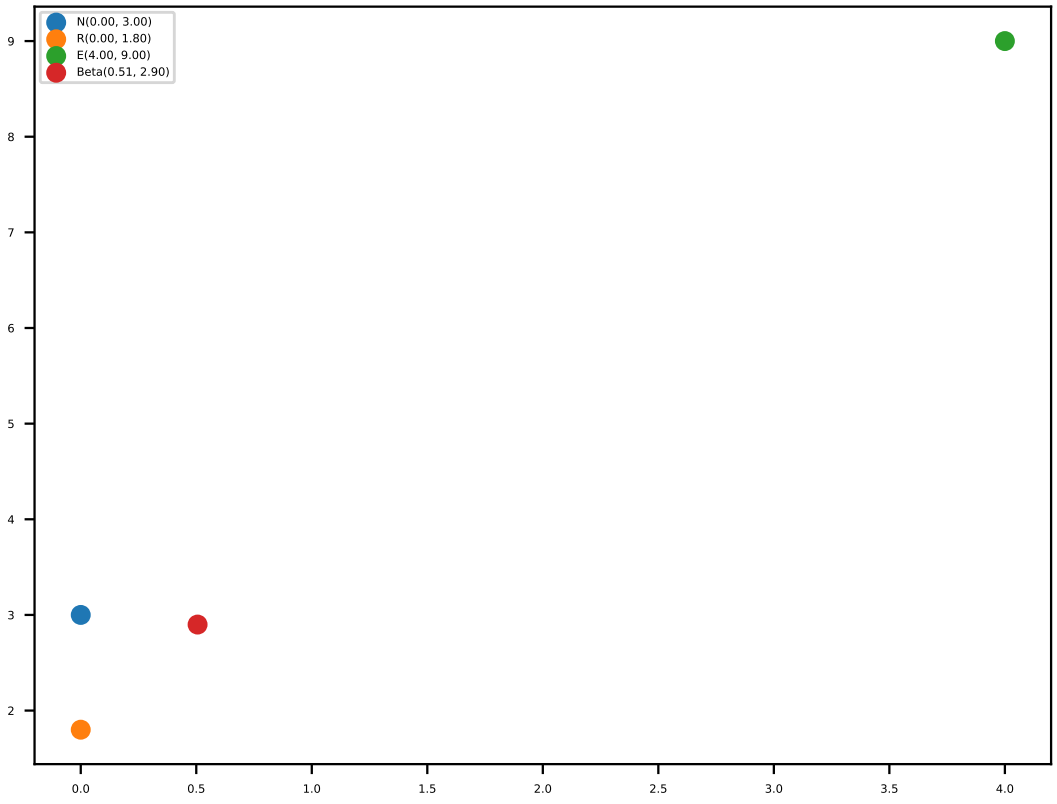
$$\overline{x_b} = 8.87$$
$$\mu_2 = D = 1.90$$

$$\mu_3 = \frac{1}{n}\sum_{j=1}^{L} n_j(x_j - \overline{x_b})^3 = \frac{1}{30} * (-55.87) = -1.86$$

$$\mu_4 = \frac{1}{n}\sum_{j=1}^{L} n_j(x_j - \overline{x_b})^4 = \frac{1}{30} * (313.99) = 10.47$$

$$\beta_1^2 = \frac{\mu_2^3}{\mu_3^2} = \frac{6.86}{3.47} = 0.51$$

$$\beta_2 = \frac{\mu_4}{\mu_2^2} = \frac{10.47}{3.61} = 2.90$$



$$\alpha = \overline{x_b} = 8.87$$

$$\lambda = \sigma = \sqrt{D} = \sqrt{1.9} = 1.38$$

$$W_n(x;\ \alpha,\ \lambda) = \frac{1}{\lambda\sqrt{2\pi}} e^{-\frac{(x-\alpha)^2}{2\lambda^2}}$$