2.

M0 = 3.642857142857143

Signma0 = 5.08673469387755

GMM(x\_new | mu0, sigma0^2) = 0.15557276043467078

M1 = 7.0

Signma1 = 24.666666666666668

GMM(x\_new | mu1, sigma1^2) = 0.05328300210910966

M2 = 3.769230769230769

Signma2 = 5.254437869822484

GMM(x\_new | mu2, sigma2^2) = 0.14930427127712934

More likely 0-1: 0 set: GMM0 > GMM1

More likely 1-2: 2 set

More likely 0-2: 0 set

- More likely set 1

- More likely set 3

- More likely set 1

**More likely set 1**

1.

При x = 0: