$M2 := 100 \qquad m2 := 0 .. M2 - 1 \qquad y2_{m2} := z2_{m2}$

$M1 := 50 \qquad m1 := 0 .. M1 - 1 \qquad y1_{m1} := z1_{m1}$

$$\psi(z, z0, \sigma) := \frac{1}{\sigma \cdot \sqrt{2 \cdot \pi}} \cdot \exp\left[\frac{-(z - z0)^2}{2 \cdot \sigma^2}\right]$$

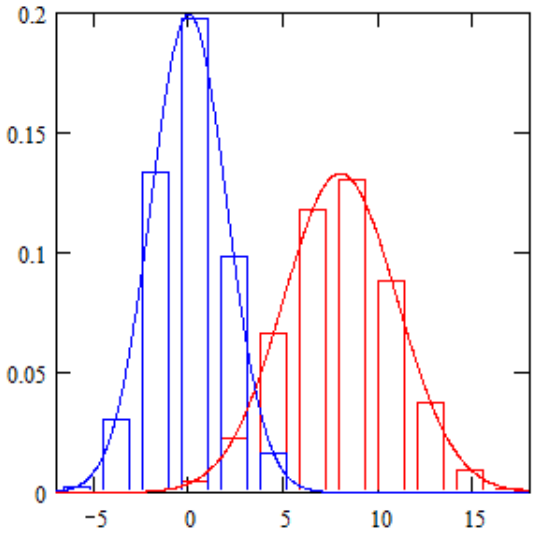
$\sigma := 0.5$

$$\Phi1(z) := \frac{1}{M1} \cdot \sum_{m1=0}^{M1-1} \psi\left(z, z1_{m1}, \sigma\right) \qquad \Phi2(z) := \frac{1}{M2} \cdot \sum_{m2=0}^{M2-1} \psi\left(z, z2_{m2}, \sigma\right)$$

$$E(F, \Phi) := \int_{lower}^{upper} (\Phi(x) - F(x))^2 \, dx$$

$$\Psi1(z) := \frac{1}{n1} \cdot \sum_{j=0}^{bin-1} hist(int, z1)_j \cdot \psi\left(z, int_j, \sigma\right) \qquad \Psi2(z) := \frac{1}{n2} \cdot \sum_{j=0}^{bin-1} hist(int, z2)_j \cdot \psi\left(z, int_j, \sigma\right)$$

$$\int_{lower}^{upper} \Phi1(x) \, dx = 1 \qquad \int_{lower}^{upper} \Phi2(x) \, dx = 1$$



$upper = 18 \qquad bin = 12$

$lower = -7 \qquad h = 2.083$

$n1 = 500 \qquad n2 = 1000$

$M1 = 50 \qquad M2 = 100$

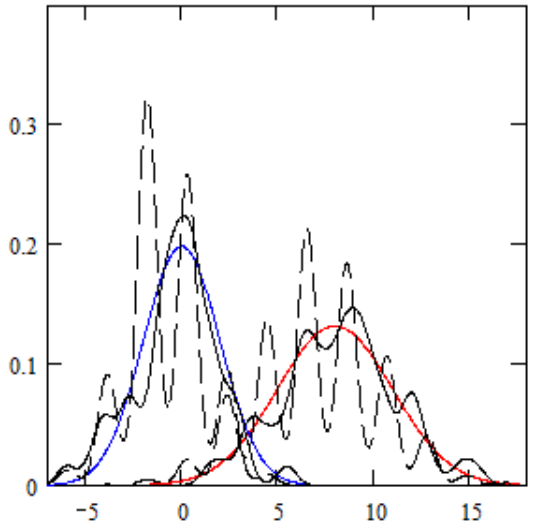
$\sigma = 0.5$

$E(F1, \Phi1) = 5.106 \cdot 10^{-3}$

$E(F2, \Phi2) = 2.494 \cdot 10^{-3}$

$E(F1, \Psi1) = 0.048$

$E(F2, \Psi2) = 0.023$



$M2 := 100 \qquad m2 := 0..M2-1 \qquad y2_{m2} := z2_{m2}$

$M1 := 50 \qquad m1 := 0..M1-1 \qquad y1_{m1} := z1_{m1}$

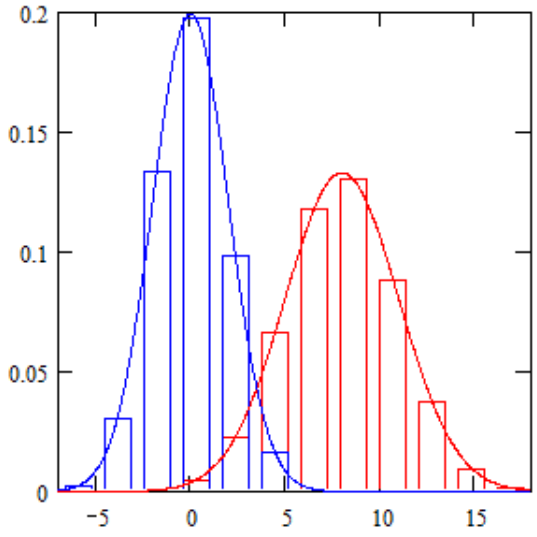
$$\psi(z,z0,\sigma) := \frac{1}{\sigma\cdot\sqrt{2\cdot\pi}}\cdot\exp\left[\frac{-(z-z0)^2}{2\cdot\sigma^2}\right] \qquad \sigma := 1$$

$$\Phi1(z) := \frac{1}{M1}\cdot\sum_{m1=0}^{M1-1}\psi\left(z,z1_{m1},\sigma\right) \qquad \Phi2(z) := \frac{1}{M2}\cdot\sum_{m2=0}^{M2-1}\psi\left(z,z2_{m2},\sigma\right)$$

$$E(F,\Phi) := \int_{lower}^{upper}(\Phi(x)-F(x))^2\,dx$$

$$\Psi1(z) := \frac{1}{n1}\cdot\sum_{j=0}^{bin-1}hist(int,z1)_j\cdot\psi\left(z,int_j,\sigma\right) \qquad \Psi2(z) := \frac{1}{n2}\cdot\sum_{j=0}^{bin-1}hist(int,z2)_j\cdot\psi\left(z,int_j,\sigma\right)$$

$$\int_{lower}^{upper}\Phi1(x)\,dx = 0.997 \qquad \int_{lower}^{upper}\Phi2(x)\,dx = 1$$



$upper = 18 \qquad bin = 12$

$lower = -7 \qquad h = 2.083$

$n1 = 500 \qquad n2 = 1000$

$M1 = 50 \qquad M2 = 100$

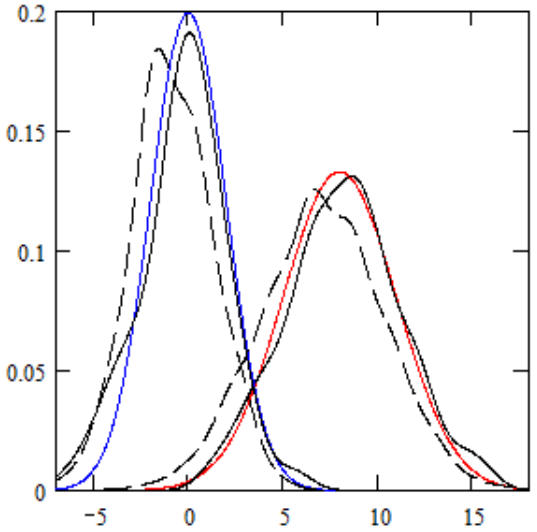
$\sigma = 1$

$E(F1,\Phi1) = 2.461\cdot10^{-3}$

$E(F2,\Phi2) = 6.029\cdot10^{-4}$

$E(F1,\Psi1) = 0.014$

$E(F2,\Psi2) = 4.393\cdot10^{-3}$



$M2 := 100 \qquad m2 := 0 .. M2 - 1 \qquad y2_{m2} := z2_{m2}$

$M1 := 50 \qquad m1 := 0 .. M1 - 1 \qquad y1_{m1} := z1_{m1}$

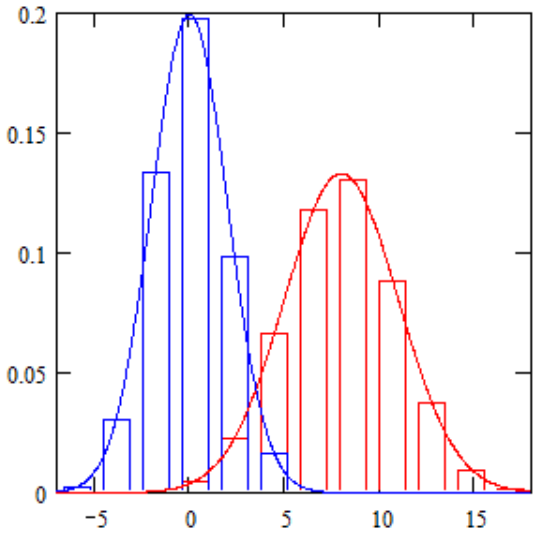
$$\psi(z, z0, \sigma) := \frac{1}{\sigma \cdot \sqrt{2 \cdot \pi}} \cdot \exp\left[\frac{-(z - z0)^2}{2 \cdot \sigma^2}\right] \qquad \sigma := 2$$

$$\Phi1(z) := \frac{1}{M1} \cdot \sum_{m1=0}^{M1-1} \psi\left(z, z1_{m1}, \sigma\right) \qquad \Phi2(z) := \frac{1}{M2} \cdot \sum_{m2=0}^{M2-1} \psi\left(z, z2_{m2}, \sigma\right)$$

$$E(F, \Phi) := \int_{lower}^{upper} (\Phi(x) - F(x))^2 \, dx$$

$$\Psi1(z) := \frac{1}{n1} \cdot \sum_{j=0}^{bin-1} hist(int, z1)_j \cdot \psi\left(z, int_j, \sigma\right) \qquad \Psi2(z) := \frac{1}{n2} \cdot \sum_{j=0}^{bin-1} hist(int, z2)_j \cdot \psi\left(z, int_j, \sigma\right)$$

$$\int_{lower}^{upper} \Phi1(x) \, dx = 0.985 \qquad \int_{lower}^{upper} \Phi2(x) \, dx = 0.997$



$upper = 18 \qquad bin = 12$

$lower = -7 \qquad h = 2.083$

$n1 = 500 \qquad n2 = 1000$

$M1 = 50 \qquad M2 = 100$

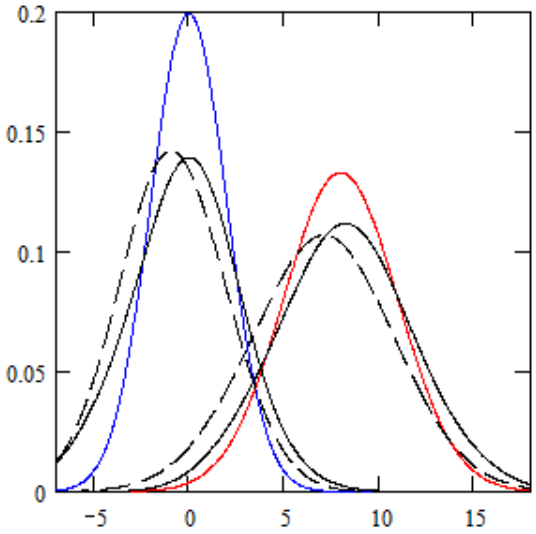
$\sigma = 2$

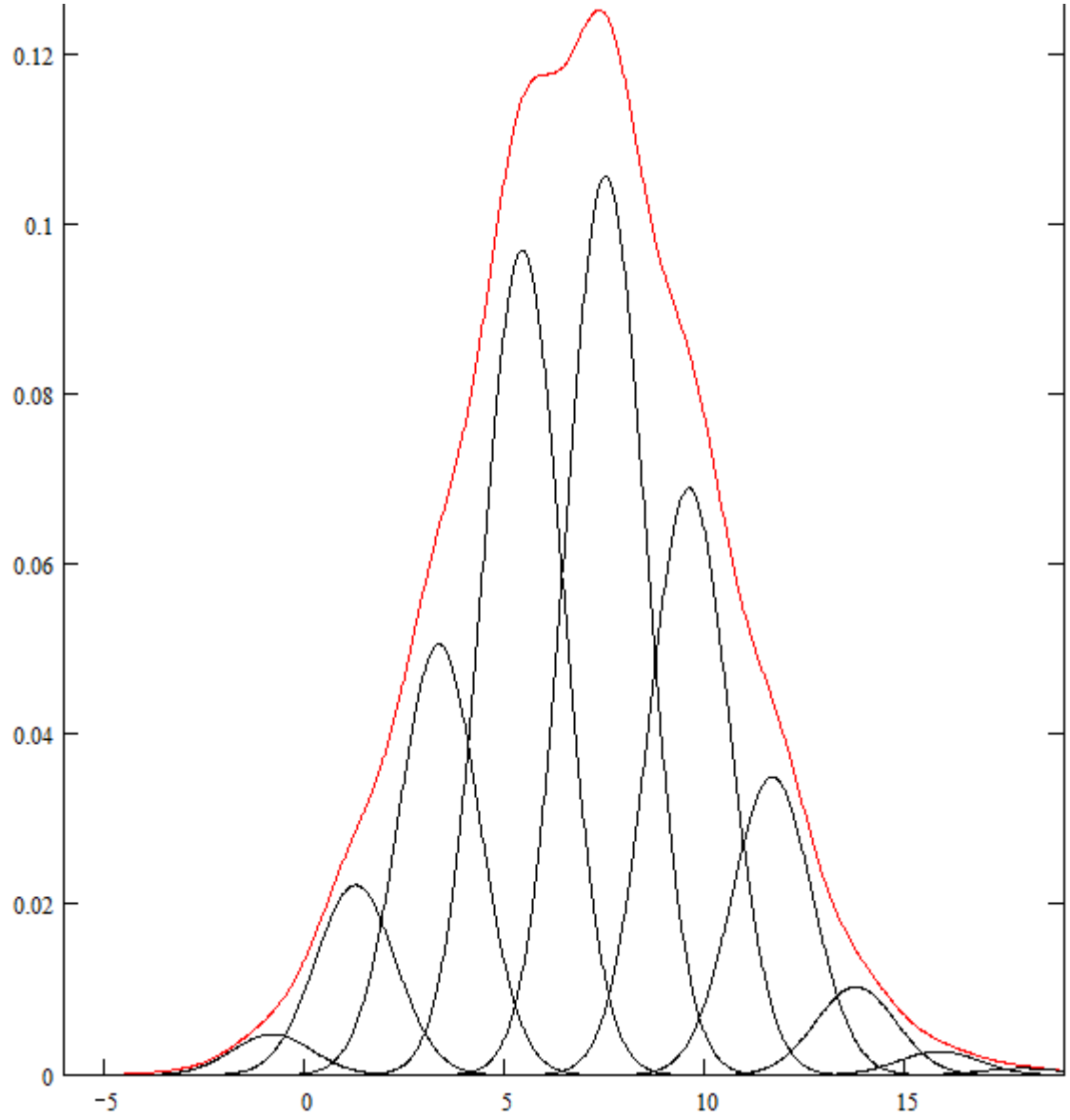
$E(F1, \Phi1) = 0.012$

$E(F2, \Phi2) = 2.307 \cdot 10^{-3}$

$E(F1, \Psi1) = 0.017$

$E(F2, \Psi2) = 6.049 \cdot 10^{-3}$




0.12
0.1
0.08
0.06
0.04
0.02
0
−5
0
5
10
15