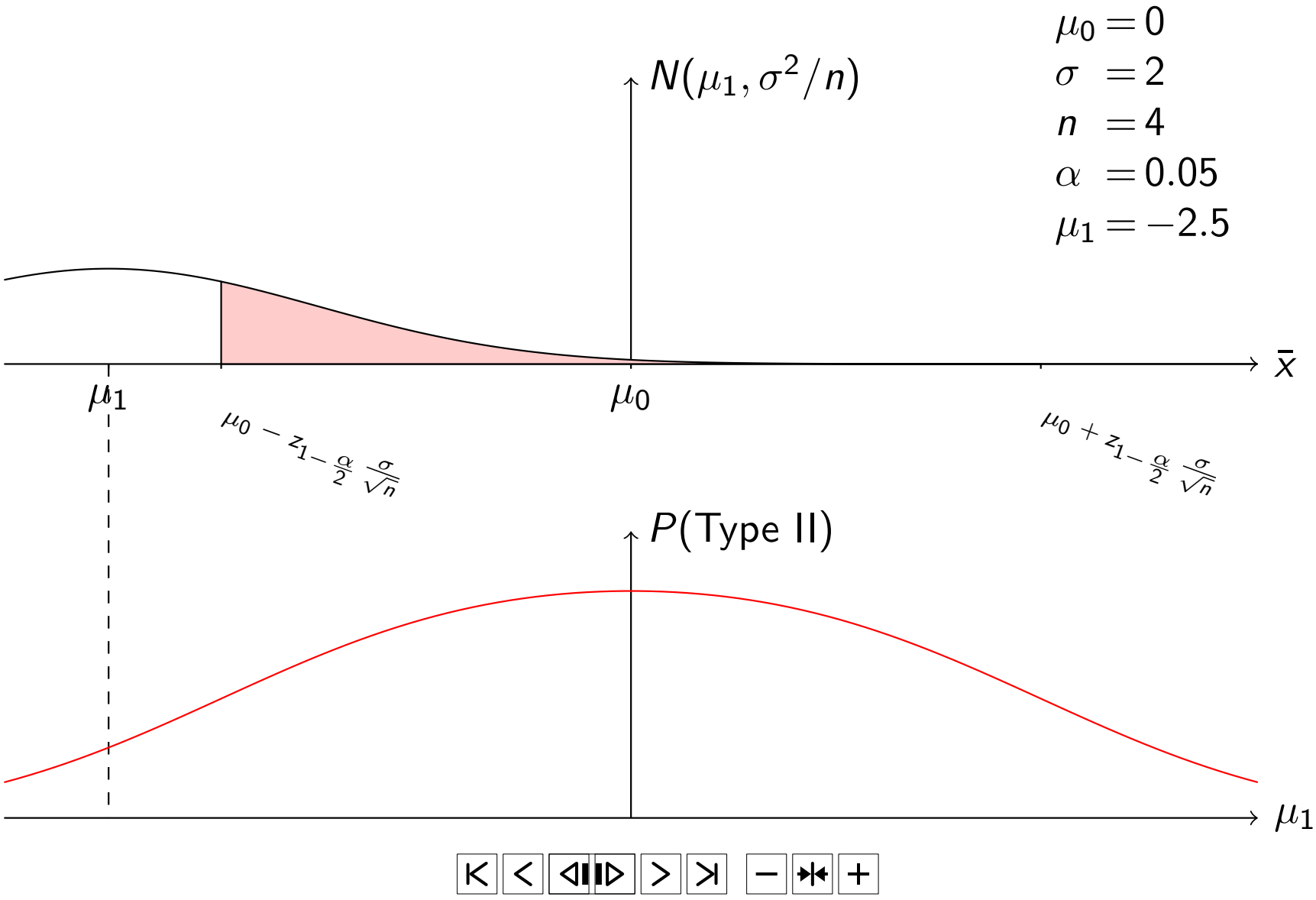
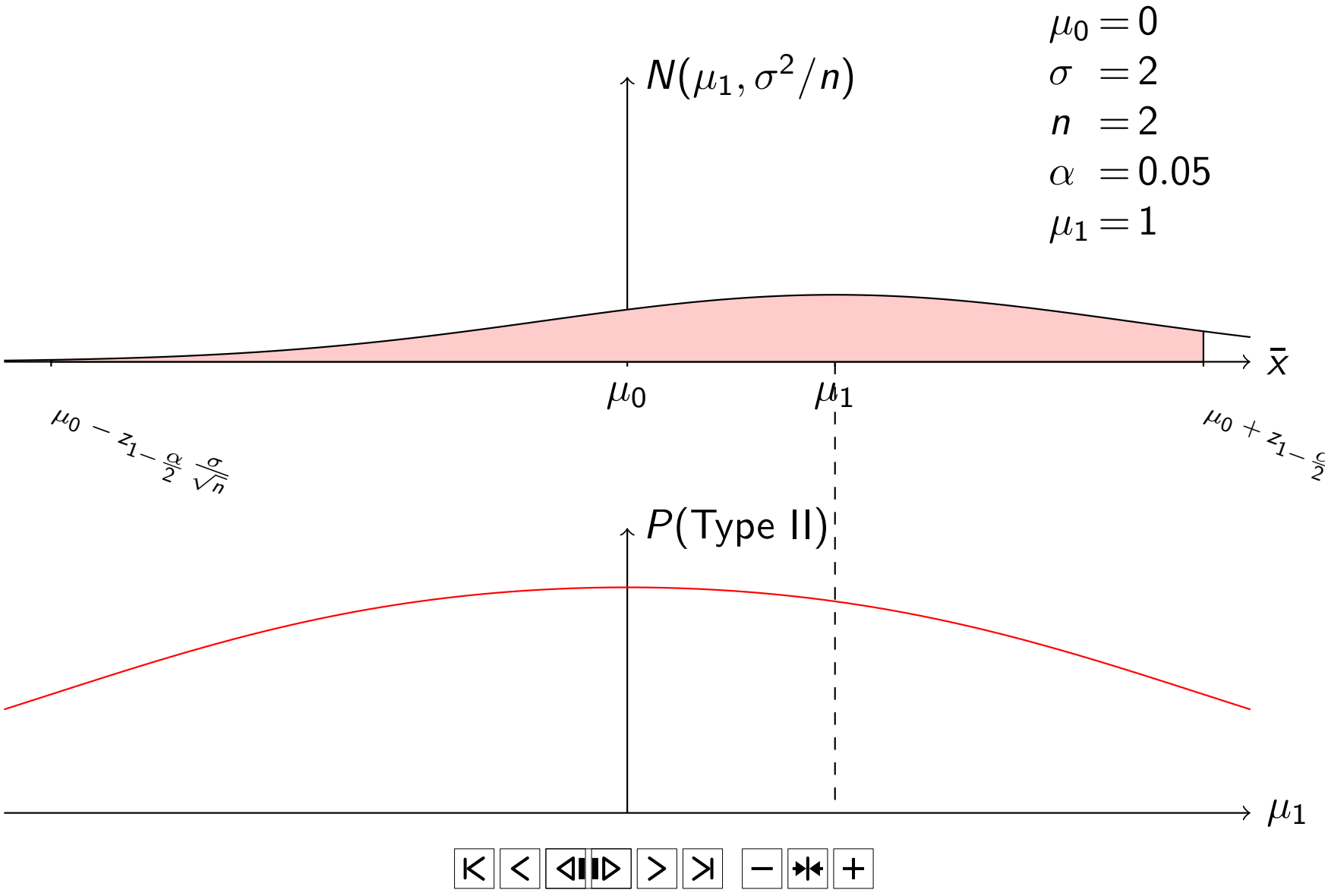
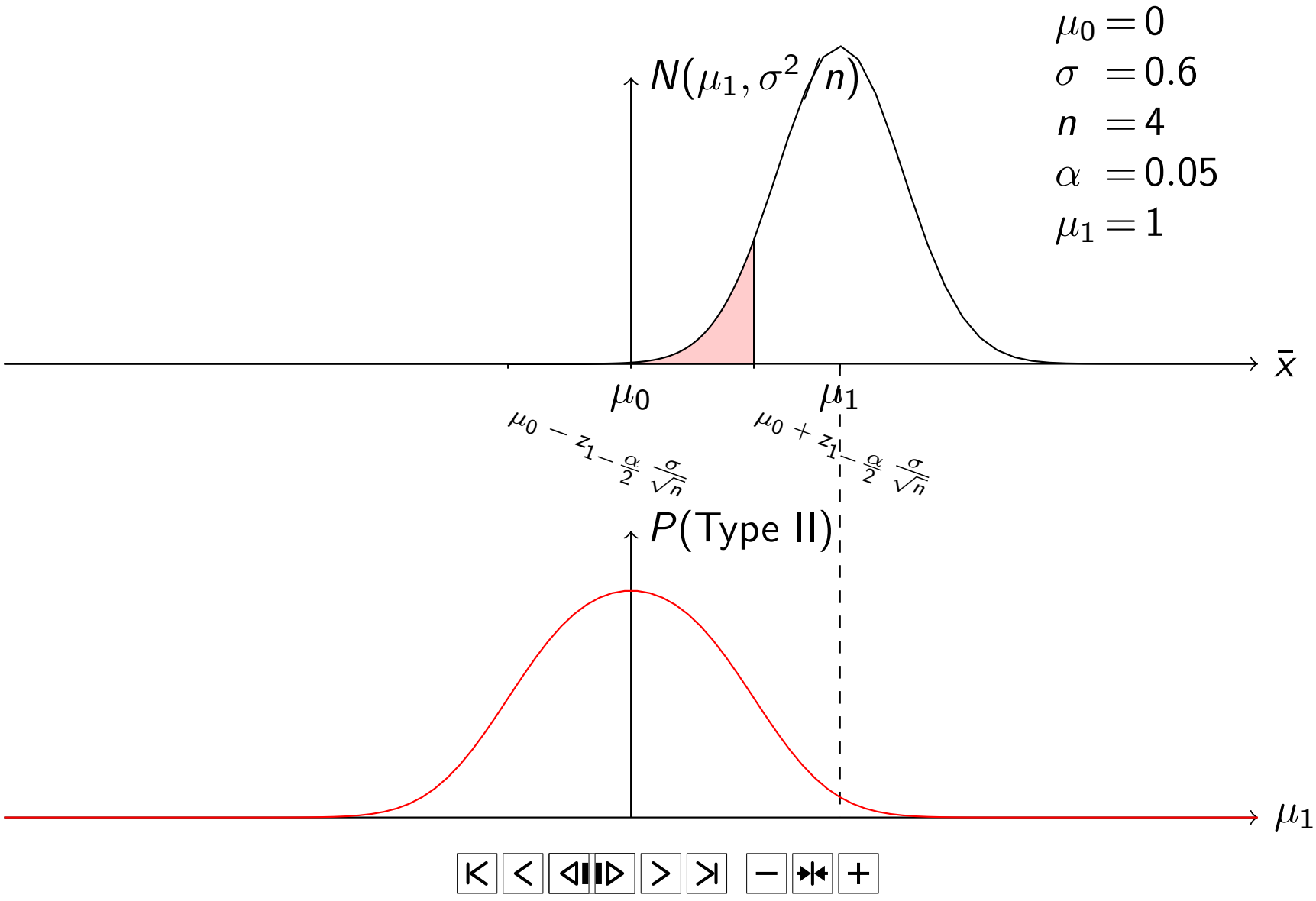
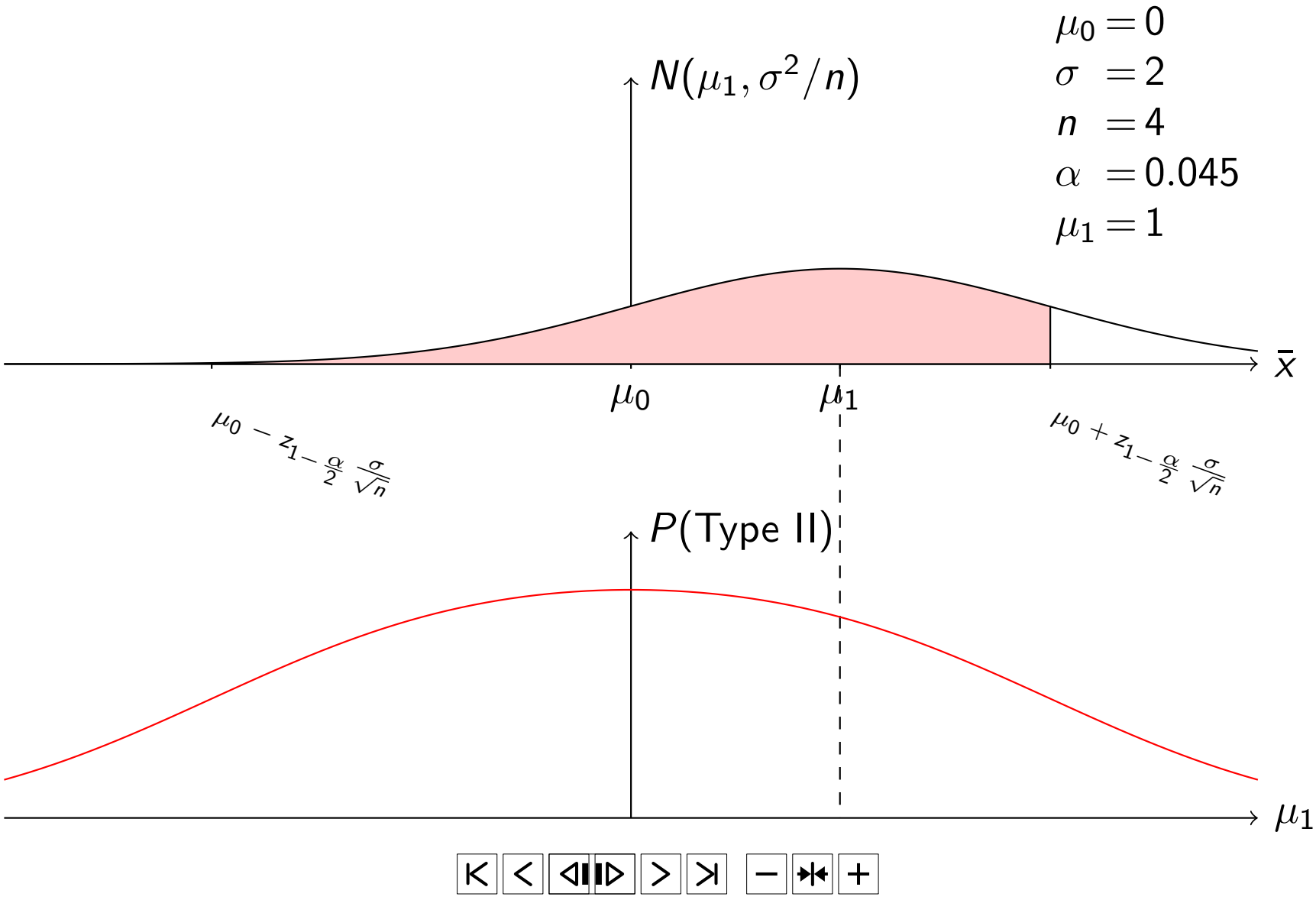

$\mu_0 = 0$
$\sigma = 2$
$n = 4$
$\alpha = 0.05$
$\mu_1 = -2.5$
$N(\mu_1, \sigma^2/n)$
$\bar{x}$
μ_1
μ_0
$\mu_0 - z_{1-\frac{\alpha}{2}} \frac{\sigma}{\sqrt{n}}$
$\mu_0 + z_{1-\frac{\alpha}{2}} \frac{\sigma}{\sqrt{n}}$
$P(\text{Type II})$
μ_1


$\mu_0 = 0$
$\sigma = 2$
$n = 2$
$\alpha = 0.05$
$\mu_1 = 1$
$N(\mu_1, \sigma^2/n)$
$\bar{x}$
μ_0
μ_1
$\mu_0 - z_{1-\frac{\alpha}{2}} \frac{\sigma}{\sqrt{n}}$
$\mu_0 + z_{1-\frac{\alpha}{2}}$
$P(\text{Type II})$
μ_1


$\mu_0 = 0$
$\sigma = 0.6$
$n = 4$
$\alpha = 0.05$
$\mu_1 = 1$
$N(\mu_1, \sigma^2/n)$
$\bar{x}$
μ_0
μ_1
$\mu_0 - z_{1-\frac{\alpha}{2}} \frac{\sigma}{\sqrt{n}}$
$\mu_0 + z_{1-\frac{\alpha}{2}} \frac{\sigma}{\sqrt{n}}$
$P(\text{Type II})$
μ_1


$\mu_0 = 0$
$\sigma = 2$
$n = 4$
$\alpha = 0.045$
$\mu_1 = 1$
$N(\mu_1, \sigma^2/n)$
$\bar{x}$
μ_0
μ_1
$\mu_0 - z_{1-\frac{\alpha}{2}} \frac{\sigma}{\sqrt{n}}$
$\mu_0 + z_{1-\frac{\alpha}{2}} \frac{\sigma}{\sqrt{n}}$
$P(\text{Type II})$
μ_1