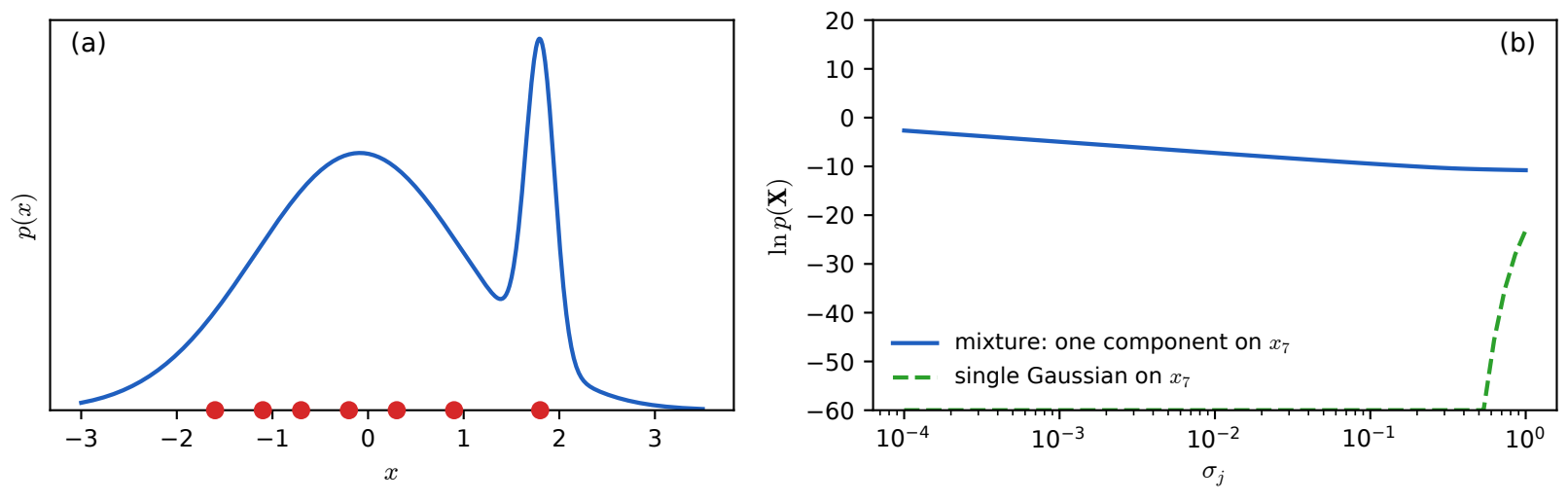

(a)
$p(x)$
−3
−2
−1
0
1
2
3
x
(b)
20
10
0
−10
−20
−30
−40
−50
−60
$\ln p(\mathbf{X})$
10^{-4}
10^{-3}
10^{-2}
10^{-1}
10^{0}
σ_j
mixture: one component on x_7
single Gaussian on x_7