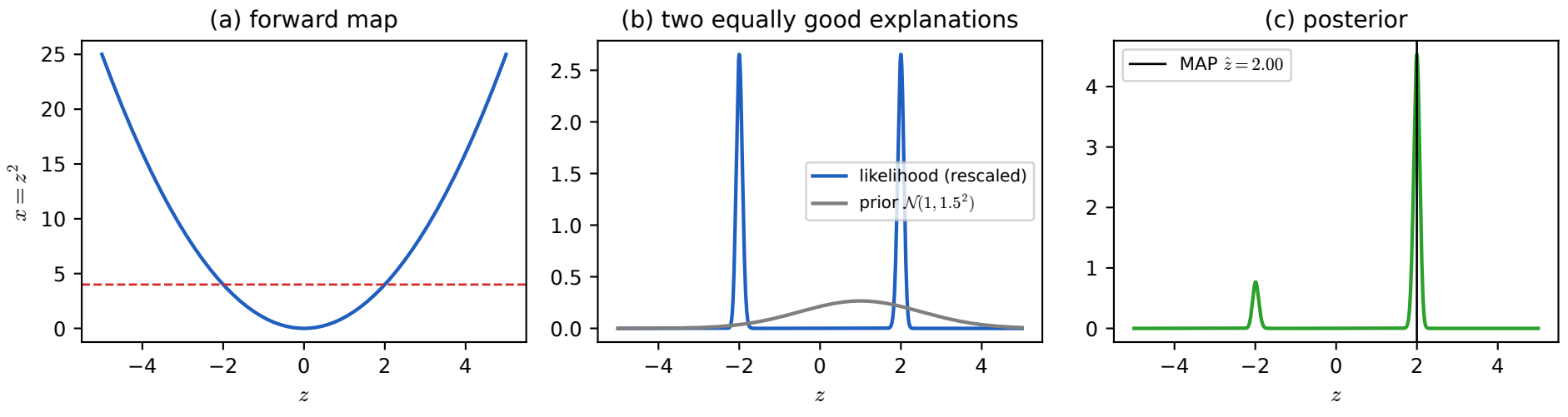

(a) forward map
$x = z^2$
z
(b) two equally good explanations
likelihood (rescaled)
prior $\mathcal{N}(1, 1.5^2)$
z
(c) posterior
MAP $\hat{z} = 2.00$
z