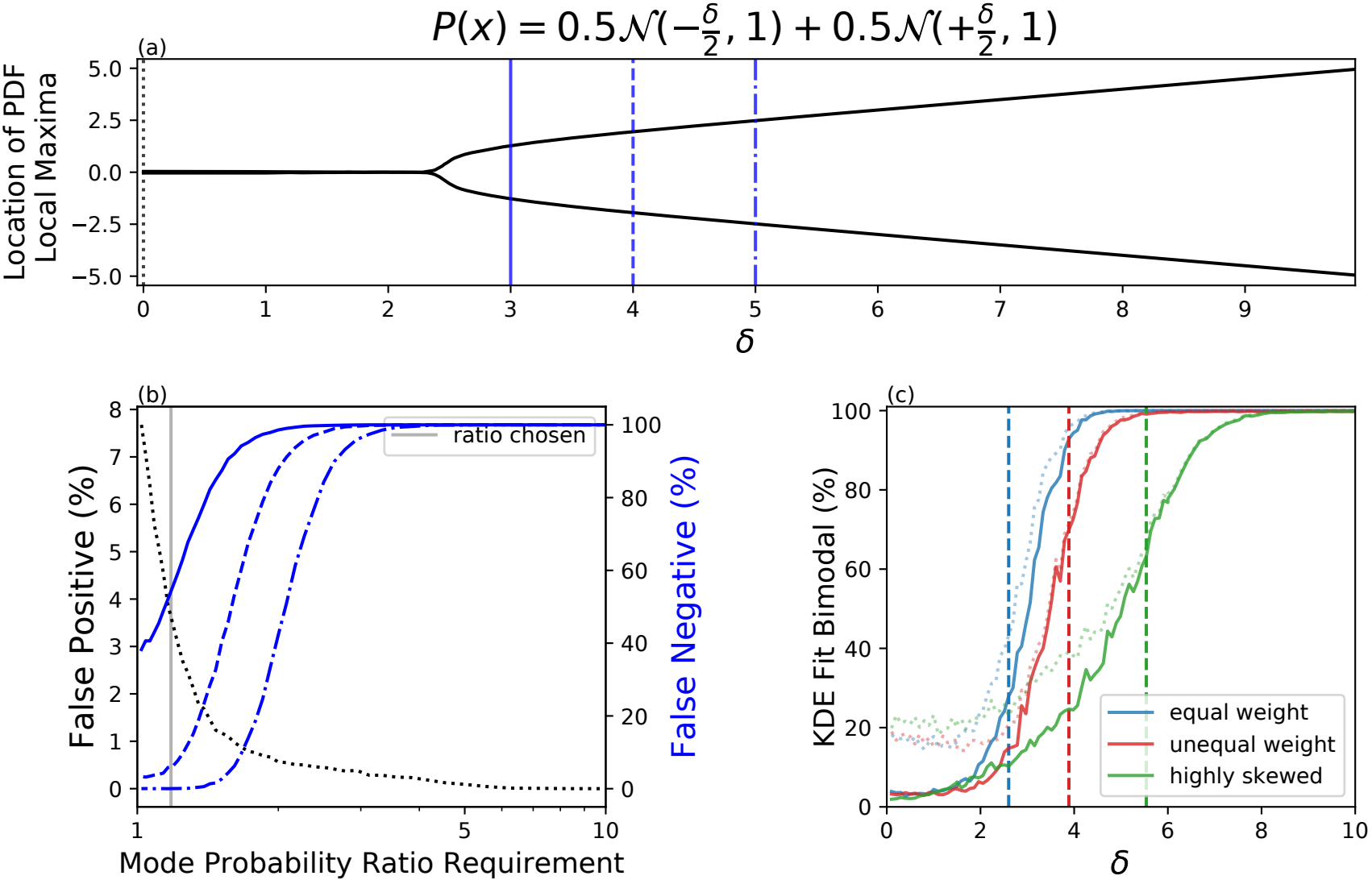
$P(x) = 0.5\mathcal{N}(-\frac{\delta}{2}, 1) + 0.5\mathcal{N}(+\frac{\delta}{2}, 1)$
(a)
Location of PDF Local Maxima
5.0
2.5
0.0
−2.5
−5.0
0
1
2
3
4
5
6
7
8
9
δ
(b)
ratio chosen
False Positive (%)
False Negative (%)
Mode Probability Ratio Requirement
1
5
10
(c)
KDE Fit Bimodal (%)
equal weight
unequal weight
highly skewed
δ