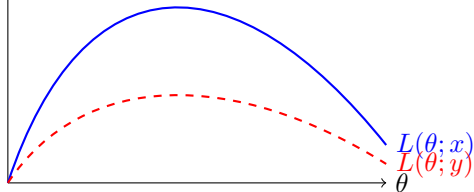Proportional Curves

$L(\theta; x)$
$L(\theta; y)$

Condition: Ratio $\frac{L(\theta; x)}{L(\theta; y)}$ is constant