



Br. bute:
$$\log \left(\frac{P(Y=+A \mid X=x)}{P(Y=-A \mid X=x)} \right) = \log \left(\frac{P(X=+A \mid X=x)}{P(X=+A \mid X=x)} \right) = \log \left(\frac{P(X=+A \mid X=x)}{P(X=+A \mid X=x)} \right) = \log \left(\frac{P(X=+A \mid X=x)}{P(X=+A \mid X=x)} \right) = \log \left(\frac{P(X=+A \mid X=$$

$$= -\frac{1}{2} (x^{T} \Sigma^{A} x) + (x^{T} \Sigma^{A} \mu_{+}) + \frac{1}{2} (\mu_{+}^{T} \Sigma^{A} \mu_{+}) + \log (\pi^{+})$$

$$+ \frac{1}{2} (x^{T} \Sigma^{A} x) - (x^{T} \Sigma^{A} \mu_{+}) - \frac{1}{2} (\mu_{-}^{T} \Sigma^{A} \mu_{-}) - \log (A - \Pi^{+})$$

$$+ \frac{1}{2} (x^{T} \Sigma^{A} x) - (x^{T} \Sigma^{A} \mu_{+}) - \frac{1}{2} (\mu_{-}^{T} \Sigma^{A} \mu_{-}) - \log (A - \Pi^{+})$$

$$+ \frac{1}{2} (x^{T} \Sigma^{A} x) - (x^{T} \Sigma^{A} \mu_{+}) - \frac{1}{2} (\mu_{-}^{T} \Sigma^{A} \mu_{+} + \frac{1}{2} \mu_{-}^{T} \Sigma^{A} \mu_{-} + \frac{1}{2} \mu_{-}^{T} \Sigma^{A} \mu$$