Example

$$P(X|\theta) = \mathcal{N}(X|\theta, \sigma^2)$$

$$\mathcal{A}(v) = ?$$

$\mathcal{N}(X|\theta, \sigma^2)$ $\mathcal{A}(v)$

$$P(\theta|X) = \frac{P(X|\theta)P(\theta)}{P(X)}$$

$\mathcal{A}(v')$