problem Set: March 21

() (a)
$$\beta^n = \frac{\sum_{i=1}^n x_i}{n}$$

= 5/4

$$\beta f(x|\mu, o^{2}) = \sqrt{\frac{2\pi i \sigma^{2}}{2\sigma^{2}}} \exp\left(-\frac{(x-\mu)^{2}}{2\sigma^{2}}\right)$$

$$P(X \leq \theta) = 0.95 = P\left(\frac{x-\mu}{\sigma} < \frac{\theta-\mu}{\sigma}\right)$$

$$L\left(\frac{\mu}{\sigma^{2}}\right) = -\frac{n}{2}\ln(2\pi\sigma^{2}) - \sum_{z=0}^{\infty} \frac{(x^{z}-\mu)^{2}}{z\sigma^{2}}$$

$$\frac{2L}{2} = \sum_{z=0}^{\infty} \frac{x^{z}-\mu}{\sigma^{2}} = 0$$

$$\frac{2L}{2\sigma^{2}} = -\frac{n}{2\sigma^{2}} + \left(\sum_{z=0}^{\infty} \frac{(x^{z}-\mu)^{2}}{z}\right) \frac{(\sigma^{2})^{2}}{(\sigma^{2})^{2}} = 0$$

$$\frac{2L}{2\sigma^{2}} = \frac{1}{2\sigma^{2}} + \left(\sum_{z=0}^{\infty} \frac{(x^{z}-\mu)^{2}}{z}\right) \frac{(\sigma^{2})^{2}}{(\sigma^{2}-\kappa)^{2}} = 0$$

$$\frac{2L}{2\sigma^{2}} = \sum_{z=0}^{\infty} \frac{(x^{z}-\kappa)^{2}}{(x^{z}-\kappa)^{2}} = \frac{(x^{z}-\kappa)^{2}}{(x^{z}-\kappa)^{2}} = 0$$

$$\frac{2L}{2\sigma^{2}} = \sum_{z=0}^{\infty} \frac{(x^{z}-\kappa)^{2}}{(x^{z}-\kappa)^{2}} = 0$$

$$P(X=k|X) = e^{-\lambda} \frac{\lambda k}{k!}$$

$$P(X) = \frac{1}{1-1} e^{-\lambda} \frac{\lambda^{x}}{x_{i}} = \frac{(e^{-\lambda} \lambda^{x})^{n}}{x_{i}! \dots x_{n}!}$$

$$P(X) = e^{-\lambda} \lambda^{x} = \exp(-\lambda + x \ln \lambda)$$

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