

$$X \sim N(m, \sigma^2)$$

정규분포

$$Z = \frac{X - m}{\sigma}$$

표준화

$Z \sim N(0, 1^2)$

표준정규분포

Handwritten notes:
 - Z is circled in pink with the label "확률변수" (random variable).
 - X is circled in red with the label "확률변수" (random variable).
 - m is circled in black with the label "확률변수 X의 기대값" (expected value of random variable X).
 - σ is circled in black with the label "확률변수 X의 표준편차" (standard deviation of random variable X).

$$P(a \leq X \leq b) \Rightarrow P\left(\frac{a-m}{\sigma} \leq Z \leq \frac{b-m}{\sigma}\right)$$