cumulative distribution function

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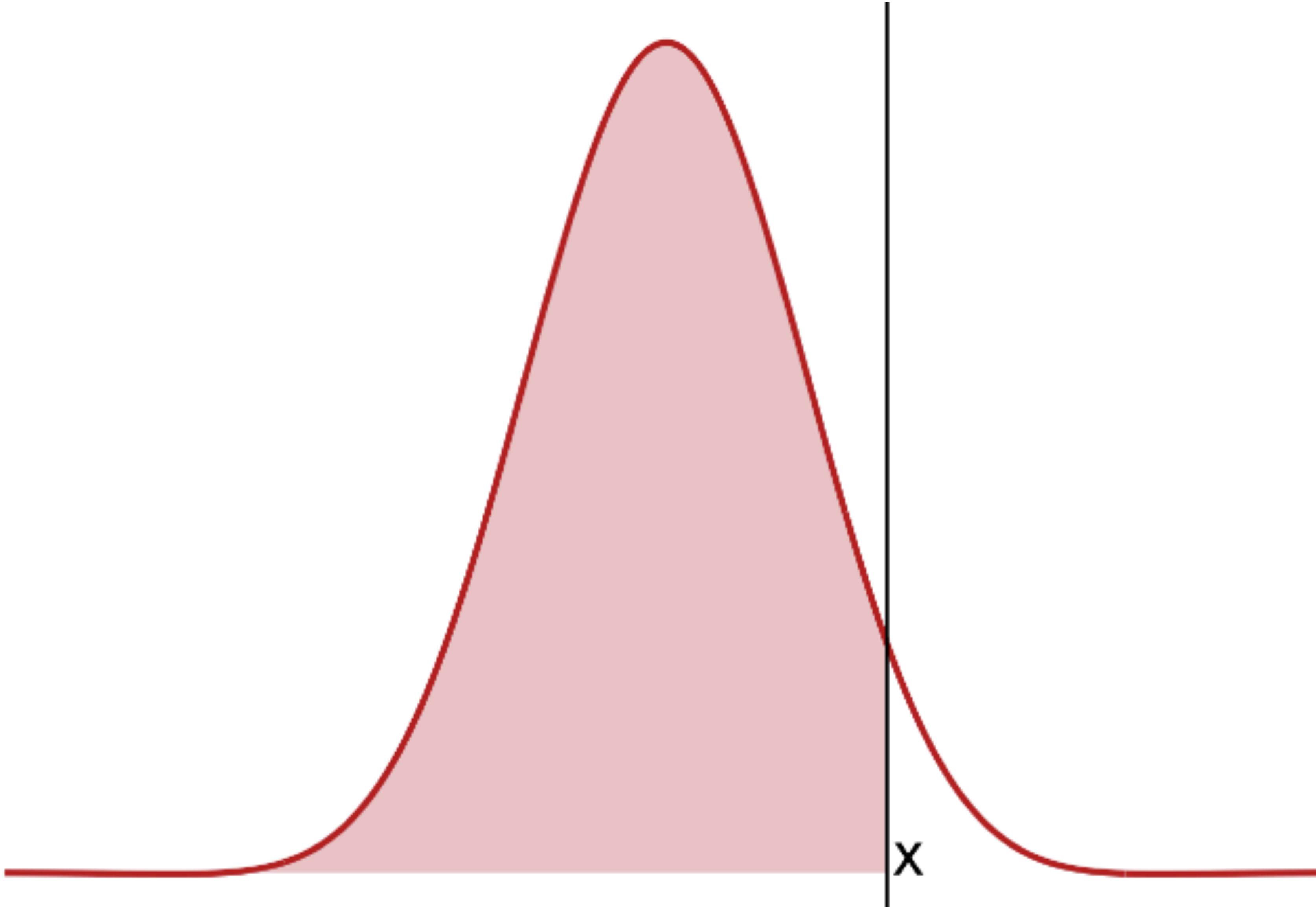
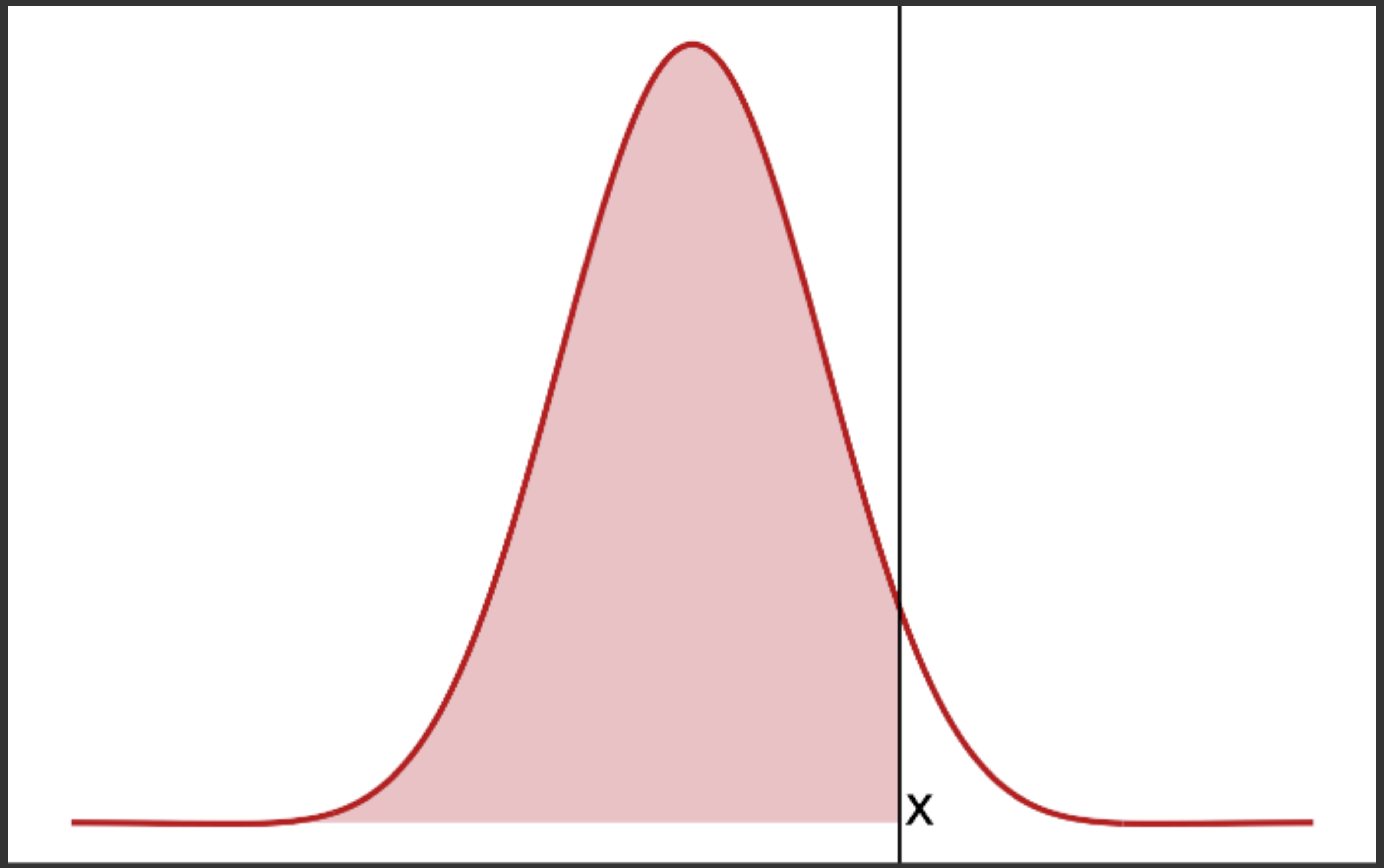

x

# cumulative distribution function

For a continuous random variable $X$ with pdf $f(x)$ its cumulative distribution function (cdf) is defined as follows

$$F(x) = P(X \leq x) = \int_{-\infty}^{x} f(y)dy$$



# computing probabilities with cdf