



# MathML Equations

Faisal Shahzad, 30, a United States naturalized citizen from Pakistan, pleaded guilty to a failed attempt to explode a car bomb in Times Square in New York City in May 2010. Shahzad was sentenced to life in prison. (Songquan Deng/Shutterstock.) z - value 1.645

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$$P(ppf) = (0.8)(0.8)(0.2) = 0.128$$

$$A_i = \sum_{j=1}^b w_j \mu_{ij} = \mu^0 + \alpha_i^0 + \sum_j w_j \beta_j^0, \quad i = 1, \dots, a,$$

$$B_j = \sum_{i=1}^a v_i \mu_{ij} = \mu^0 + \sum_i v_i \alpha_i^0 + \beta_j^0, \quad j = 1, \dots, b,$$

$$\mu = \mu^0 + \sum_i v_i \alpha_i^0 + \sum_j w_j \beta_j^0$$

# Tex Equations

Formula 1:

$$(1) \quad P(\Omega) = \int_{-\infty}^{+\infty} f(x) dx = 1$$

Formula 2:

$$(2) \quad E(X) := \int_{-\infty}^{+\infty} x f(x) dx$$

A third one, with references to 1 and 2:

$$\begin{aligned} E(aX + b) &= \int_{-\infty}^{+\infty} (ax + b) f(x) dx \\ (3) \quad &= a \int_{-\infty}^{+\infty} x f(x) dx + b \int_{-\infty}^{+\infty} f(x) dx \\ &\stackrel{(1),(2)}{=} aE(X) + b \end{aligned}$$

And another one:

$$(4) \quad V(X) = \frac{a^2 + b^2 + c^2 - ab - ac - bc}{18}$$