

# The Cauchy-Schwarz Inequality

((TeX

$$(\sum_{k=1}^n a_k b_k)^2 \leq (\sum_{k=1}^n a_k^2)(\sum_{k=1}^n b_k^2)$$

## (Standard Deviation (MathML


$$\sigma = \sqrt{\frac{1}{N} \sum_{i=1}^N (x_i - \mu)^2}$$

## (Inline equation (TeX

Finally, while display equations look good for a page of samples, the ability to mix math and text in a paragraph is also important. This expression  $3x-1+(1+x)^2$  is an example of an inline equation. As you see, MathJax equations can be used this way as well, without unduly disturbing the spacing between lines

العربية

**ARABIC**

الامريكي جورج بوش في حديث  في الذكرى الرابعة للغزو الامريكي للعراق ان الاولوية حاليا لاعادة الامن للعراق.

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The Cauchy-

Schwarz

(Inequality (TeX

$$(\sum_{k=1}^n a_k b_k)^2 \leq (\sum_{k=1}^n a_k^2) (\sum_{k=1}^n b_k^2)$$

Standard

Deviation

((MathML

$$\sigma = \sqrt{\frac{1}{N} \sum_{i=1}^N (x_i - \mu)^2}$$

Inline equation

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