

Mathematical Typesetting

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Let f be the function defined by $f(x) = 3x + 7$, and let a be a positive real number.

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If $f(x) = 3x + 7$ and $g(x) = x + 4$ then

$$f(x) + g(x) = 4x + 11$$

and

$$f(x)g(x) = 3x^2 + 19x + 28.$$

If $f(x) = 3x + 7$ and $g(x) = x + 4$ then

$$f(x) + g(x) = 4x + 1111 \tag{1}$$

and

$$f(x)g(x) = 3x^2 + 19x + 28. \tag{2}$$

$$ds^2 = dx_1^2 + dx_2^2 + dx_3^2 - c^2 dt^2$$

It can also be obtained by typing

$$ds^2 = dx_1^2 + dx_2^2 + dx_3^2 - c^2 dt^2$$

$$R_i^j{}_{kl} = g^{jm} R_{imkl} = -g^{jm} R_{mikl} = -R^j{}_{ikl}$$

Let \mathbf{u}, \mathbf{v} and \mathbf{w} be three 22 vectors in \mathbf{R}^3 . The volume V of the parallelepiped with corners at the points $\mathbf{0}, \mathbf{u}, \mathbf{v}, \mathbf{w}, \mathbf{u} + \mathbf{v}, \mathbf{u} + \mathbf{w}, \mathbf{v} + \mathbf{w}$ and $\mathbf{u} + \mathbf{v} + \mathbf{w}$ is given by the formula

$$V = (\mathbf{u} \times \mathbf{v}) \cdot \mathbf{w}.$$

$$\cos(\theta + \phi) = \cos \theta \cos \phi - \sin \theta \sin \phi$$