

# Ecuaciones variadas.

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here is a fraction  $\frac{x^2}{x^3}$

here is another fraction  $\frac{2}{x^3}$

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here is a square root  $\sqrt{x^2}$

here is an integral  $\int_a^b f(x)dx$

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

$$\ddot{x}_1 = \frac{1}{m_1}[-k_1(x_1 - x_2) - b_1(\dot{x}_1 - \dot{x}_2) - k_2(x_1 - x_3) - b_2(\dot{x}_1 - \dot{x}_3)]$$

$$\ddot{x}_2 = \frac{1}{m_2}[k_1(x_1 - x_2) + b_1(\dot{x}_1 - \dot{x}_2) - k_2(x_1 - x_3) - b_3(\dot{x}_2 - \dot{u}_1) - k_3(x_2 - u_1)]$$