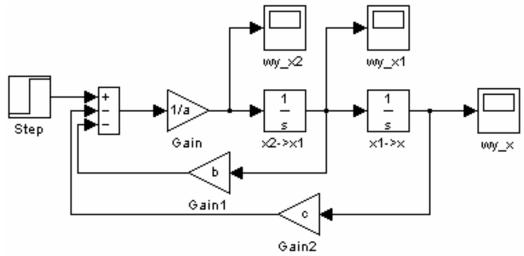
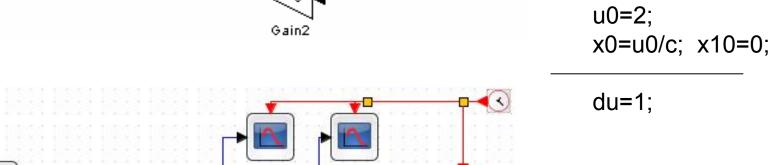
Schemat równania różniczkowego

$$a\ddot{x} + b\dot{x} + cx = u$$
 \Rightarrow $\ddot{x} = \frac{1}{a}(u - b\dot{x} - cx)$ $x = u/c$

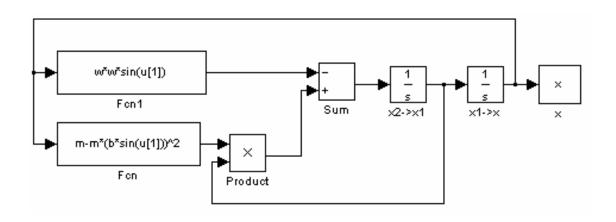


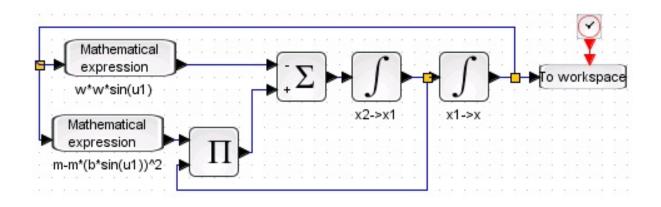


a = 2; b = 8; c = 1;

Schemat równania różniczkowego nieliniowego

$$\ddot{x} - m(1 - b^2 \sin^2 x)\dot{x} + w^2 \sin x = 0$$
 \Rightarrow $\ddot{x} = m(1 - b^2 \sin^2 x)\dot{x} - w^2 \sin x$





Schemat równania różniczkowego nieliniowego

$$\begin{cases} \dot{x}_1 - m(1 - b^2 x_2^2) x_1 = 0 \\ \dot{x}_2 + x_1 + x_2 = 0 \end{cases} \Rightarrow \begin{cases} \dot{x}_1 = m(1 - b^2 x_2^2) x_1 \\ \dot{x}_2 = -x_1 - x_2 \end{cases}$$

