## Parametric equations Lisajous curves

Parametric equations are a group of functions of one ore more independent variables. These variables are called parameters, in our case variable $t$ is parameter.
Lisajous curves is a family of curves defined with trigonometric expressions given bellow.

$$
\left[\begin{array}{l}
x \\
y
\end{array}\right]=\left[\begin{array}{c}
c \cdot \sin \left(\left(\frac{a}{b}\right) \cdot t\right) \\
d \cdot \sin (t)
\end{array}\right]
$$

Here is one example of Lisajous curve

$$
\text { a1:= curve2d_param }(4 \cdot \sin (4 / 3 t), 3 \cdot \sin (t),-10,10,1000)
$$



