$$\bar{\mathbb{K}} \xrightarrow[\text{line}]{t \mapsto \left(-\dfrac{bt+c}{a} : t\right)} \begin{cases} x{:}y \in \mathbb{K}^2 \\ ax + by + c = 0 \end{cases} \subset \mathbb{K}^2$$

$$\bar{\mathbb{K}} \xrightarrow[\text{parabola}]{t \mapsto \left(t^2 : t\right)} \begin{cases} x{:}y \in \mathbb{K}^2 \\ x = y^2 \end{cases} \subset \mathbb{K}^2$$

$$\bar{\mathbb{K}} \xrightarrow[\text{ellipse}]{t \mapsto \left(\dfrac{2at}{1+t^2} : \dfrac{b\left(1-t^2\right)}{1+t^2}\right)} \begin{cases} x{:}y \in \mathbb{K}^2 \\ (x/a)^2 + (y/b)^2 = 1 \end{cases} \subset \mathbb{K}^2$$

$$\bar{\mathbb{K}} \xrightarrow[\text{hyperbola}]{t \mapsto \left(\dfrac{a\left(1+t^2\right)}{2t} : \dfrac{b\left(1-t^2\right)}{2t}\right)} \begin{cases} x{:}y \in \mathbb{K}^2 \\ (x/a)^2 - (y/b)^2 = 1 \end{cases} \subset \mathbb{K}^2$$

$$\bar{\mathbb{K}} \xrightarrow[\text{hyperbola}]{t \mapsto \left(\dfrac{1}{t} : t\right)} \begin{cases} x{:}y \in \mathbb{K}^2 \\ xy = 1 \end{cases} \subset \mathbb{K}^2$$

$$\bar{\mathbb{K}} \xrightarrow[\text{cuspidal cubic}]{t \mapsto \left(t^2 : t^3\right)} \begin{cases} x{:}y \in \mathbb{K}^2 \\ x^3 = y^2 \end{cases} \subset \mathbb{K}^2$$

$$\bar{\mathbb{K}} \xrightarrow[\text{nodal cubic}]{t \mapsto \left(t^2 - 1 : t\left(t^2 - 1\right)\right)} \begin{cases} x{:}y \in \mathbb{K}^2 \\ y^2 = x^2\left(x+1\right) \end{cases} \subset \mathbb{K}^2$$

$$\bar{\mathbb{K}} \xrightarrow[\text{monomial curve}]{t \mapsto \left(t^m : t^n\right)} \begin{cases} x{:}y \in \mathbb{K}^2 \\ x^n = y^m \end{cases} \subset \mathbb{K}^2$$