Genus three Klein's quartic

In[2]:=
$$\Pi_{7(1,2,4)} :=$$
$$\begin{pmatrix} 1 & \text{Exp}[\frac{2\pi I}{7}] & \text{Exp}[\frac{4\pi I}{7}] & \text{Exp}[\frac{6\pi I}{7}] & \text{Exp}[\frac{8\pi I}{7}] & \text{Exp}[\frac{10\pi I}{7}] \\ 1 & \text{Exp}[\frac{4\pi I}{7}] & \text{Exp}[\frac{8\pi I}{7}] & \text{Exp}[\frac{12\pi I}{7}] & \text{Exp}[\frac{16\pi I}{7}] & \text{Exp}[\frac{20\pi I}{7}] \\ 1 & \text{Exp}[\frac{8\pi I}{7}] & \text{Exp}[\frac{16\pi I}{7}] & \text{Exp}[\frac{24\pi I}{7}] & \text{Exp}[\frac{32\pi I}{7}] & \text{Exp}[\frac{40\pi I}{7}] \end{pmatrix}$$

Genus three Fermat's quartic

In[3]:=
$$\Pi_{8(1,2,5)} :=$$
$$\begin{pmatrix} 1 & \text{Exp}[\frac{2\pi I}{8}] & \text{Exp}[\frac{4\pi I}{8}] & \text{Exp}[\frac{6\pi I}{8}] & \text{Exp}[\frac{8\pi I}{8}] & \text{Exp}[\frac{10\pi I}{8}] \\ 1 & \text{Exp}[\frac{4\pi I}{8}] & \text{Exp}[\frac{8\pi I}{8}] & \text{Exp}[\frac{12\pi I}{8}] & \text{Exp}[\frac{16\pi I}{8}] & \text{Exp}[\frac{20\pi I}{8}] \\ 1 & \text{Exp}[\frac{10\pi I}{8}] & \text{Exp}[\frac{20\pi I}{8}] & \text{Exp}[\frac{30\pi I}{8}] & \text{Exp}[\frac{40\pi I}{8}] & \text{Exp}[\frac{50\pi I}{8}] \end{pmatrix}$$

Genus three hyperelliptic curve

In[4]:=
$$\Pi_{12(1,5,6)} :=$$
$$\begin{pmatrix} 1 & \text{Exp}[\frac{2\pi I}{12}] & \text{Exp}[\frac{4\pi I}{12}] & \text{Exp}[\frac{6\pi I}{12}] & \text{Exp}[\frac{8\pi I}{12}] & \text{Exp}[\frac{10\pi I}{12}] \\ 1 & \text{Exp}[\frac{6\pi I}{12}] & \text{Exp}[\frac{12\pi I}{12}] & \text{Exp}[\frac{18\pi I}{12}] & \text{Exp}[\frac{24\pi I}{12}] & \text{Exp}[\frac{30\pi I}{12}] \\ 1 & \text{Exp}[\frac{10\pi I}{12}] & \text{Exp}[\frac{20\pi I}{12}] & \text{Exp}[\frac{30\pi I}{12}] & \text{Exp}[\frac{40\pi I}{12}] & \text{Exp}[\frac{50\pi I}{12}] \end{pmatrix}$$

Genus four Bring's curve

In[5]:=
$$\Pi_{5(1,2,4,3)} :=$$
$$\begin{pmatrix} 1 & \text{Exp}[\frac{2\pi I}{5}] & \text{Exp}[\frac{4\pi I}{5}] & \text{Exp}[\frac{6\pi I}{5}] & \text{Exp}[\frac{8\pi I}{5}] & \text{Exp}[\frac{10\pi I}{5}] & \text{Exp}[\frac{12\pi I}{5}] & \text{Exp}[\frac{14\pi I}{5}] \\ 1 & \text{Exp}[\frac{4\pi I}{5}] & \text{Exp}[\frac{8\pi I}{5}] & \text{Exp}[\frac{12\pi I}{5}] & \text{Exp}[\frac{16\pi I}{5}] & \text{Exp}[\frac{20\pi I}{5}] & \text{Exp}[\frac{24\pi I}{5}] & \text{Exp}[\frac{28\pi I}{5}] \\ 1 & \text{Exp}[\frac{8\pi I}{5}] & \text{Exp}[\frac{16\pi I}{5}] & \text{Exp}[\frac{24\pi I}{5}] & \text{Exp}[\frac{32\pi I}{5}] & \text{Exp}[\frac{40\pi I}{5}] & \text{Exp}[\frac{48\pi I}{5}] & \text{Exp}[\frac{56\pi I}{5}] \\ 1 & \text{Exp}[\frac{6\pi I}{5}] & \text{Exp}[\frac{12\pi I}{5}] & \text{Exp}[\frac{18\pi I}{5}] & \text{Exp}[\frac{24\pi I}{5}] & \text{Exp}[\frac{30\pi I}{5}] & \text{Exp}[\frac{36\pi I}{5}] & \text{Exp}[\frac{42\pi I}{5}] \end{pmatrix}$$

Schoen's I-WP minimal surface

In[6]:=
$$\Pi_{12(1,4,7)} :=$$
$$\begin{pmatrix} 1 & \text{Exp}[\frac{2\pi I}{12}] & \text{Exp}[\frac{4\pi I}{12}] & \text{Exp}[\frac{6\pi I}{12}] & \text{Exp}[\frac{8\pi I}{12}] & \text{Exp}[\frac{10\pi I}{12}] & \text{Exp}[\frac{12\pi I}{12}] & \text{Exp}[\frac{14\pi I}{12}] \\ 1 & \text{Exp}[\frac{4\pi I}{12}] & \text{Exp}[\frac{8\pi I}{12}] & \text{Exp}[\frac{12\pi I}{12}] & \text{Exp}[\frac{16\pi I}{12}] & \text{Exp}[\frac{20\pi I}{12}] & \text{Exp}[\frac{24\pi I}{12}] & \text{Exp}[\frac{28\pi I}{12}] \\ 1 & \text{Exp}[\frac{8\pi I}{12}] & \text{Exp}[\frac{16\pi I}{12}] & \text{Exp}[\frac{24\pi I}{12}] & \text{Exp}[\frac{32\pi I}{12}] & \text{Exp}[\frac{40\pi I}{12}] & \text{Exp}[\frac{48\pi I}{12}] & \text{Exp}[\frac{56\pi I}{12}] \\ 1 & \text{Exp}[\frac{14\pi I}{12}] & \text{Exp}[\frac{28\pi I}{12}] & \text{Exp}[\frac{42\pi I}{12}] & \text{Exp}[\frac{56\pi I}{12}] & \text{Exp}[\frac{70\pi I}{12}] & \text{Exp}[\frac{84\pi I}{12}] & \text{Exp}[\frac{98\pi I}{12}] \end{pmatrix}$$