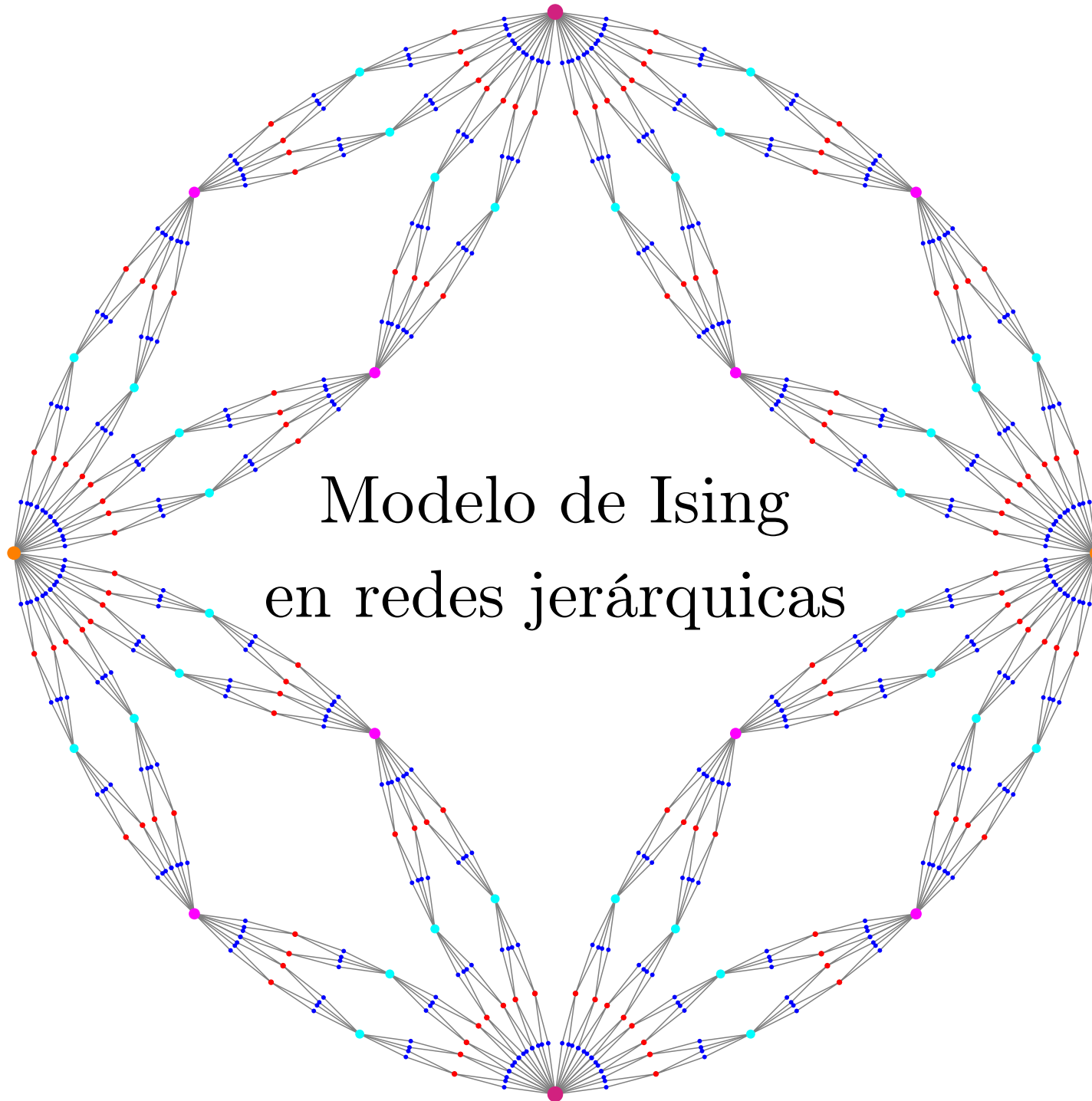
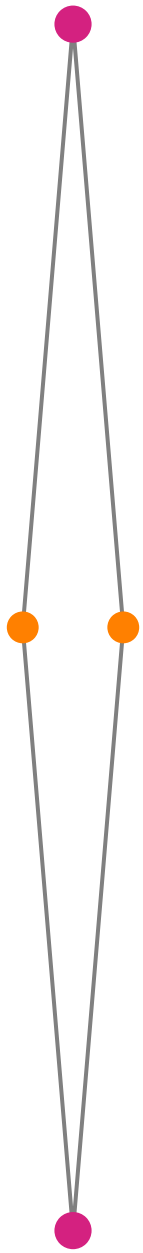


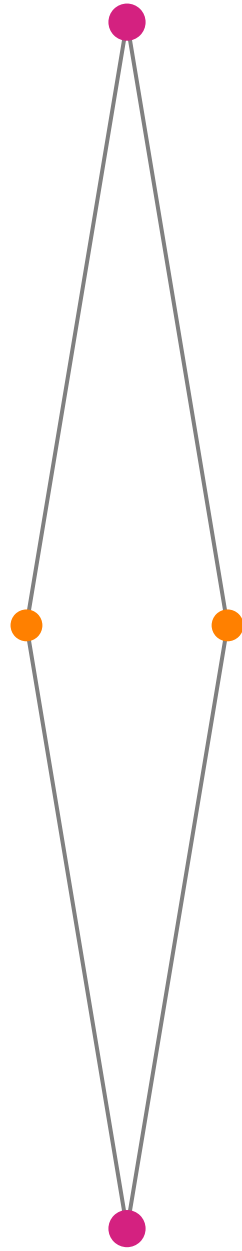
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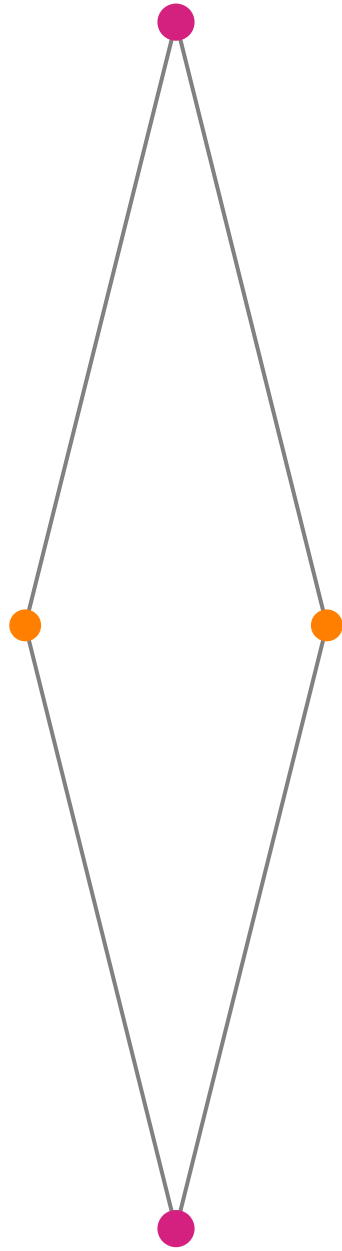


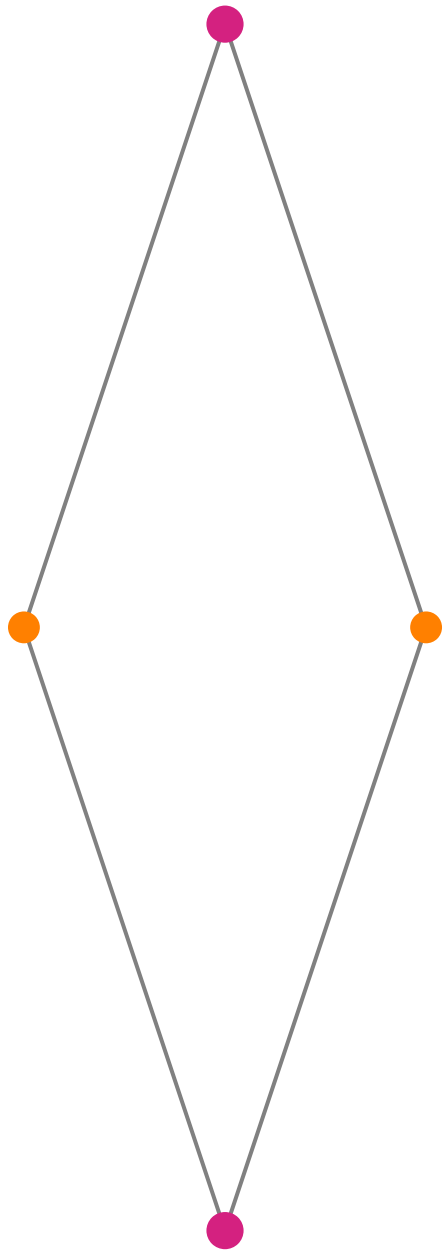
Modelo de Ising
en redes jerárquicas

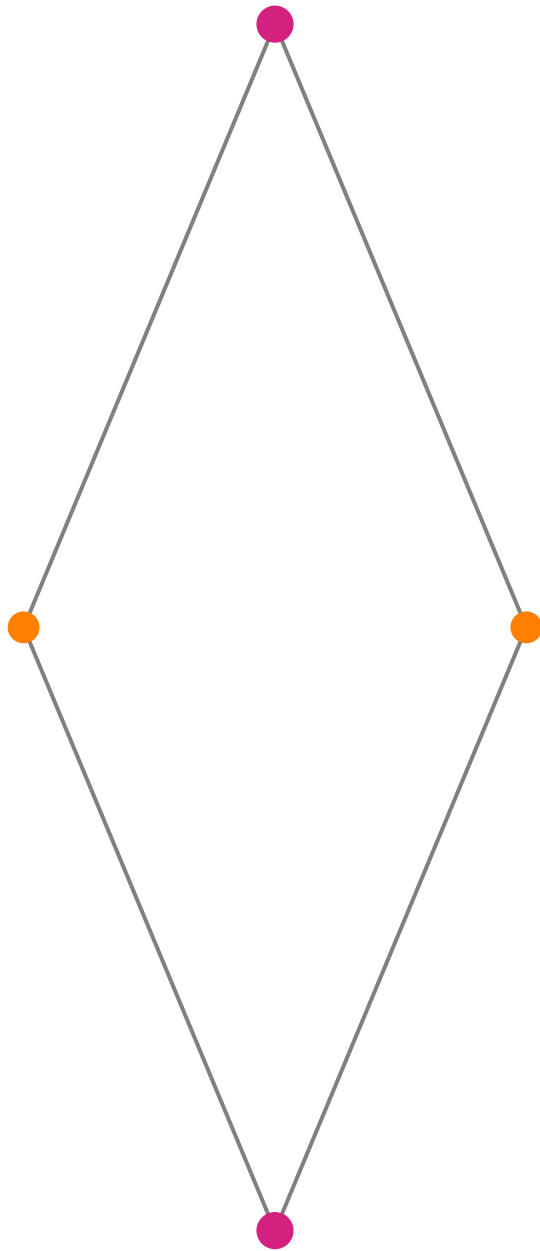


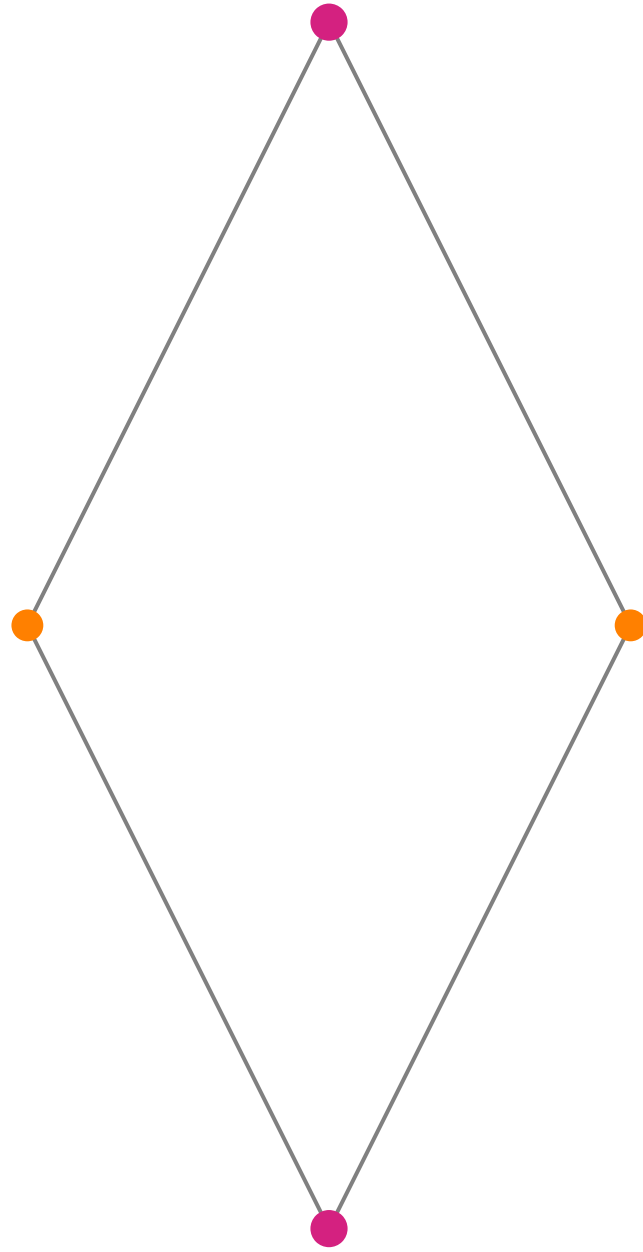


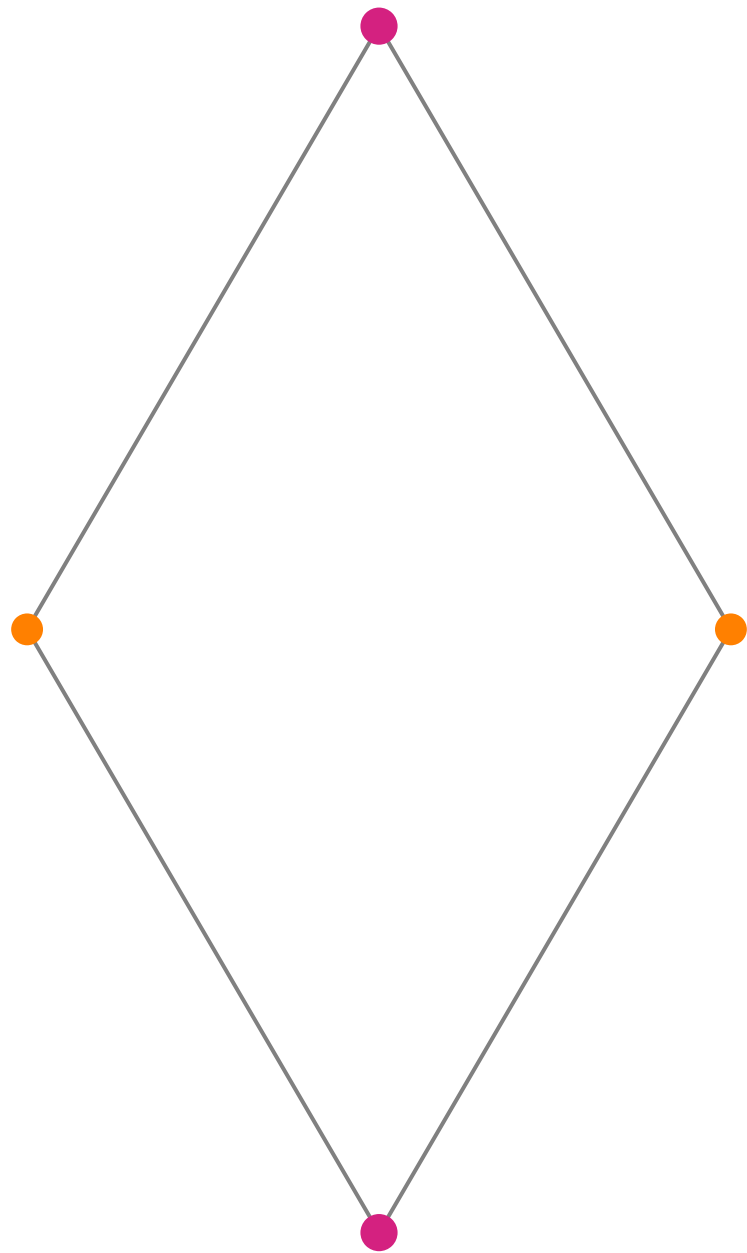


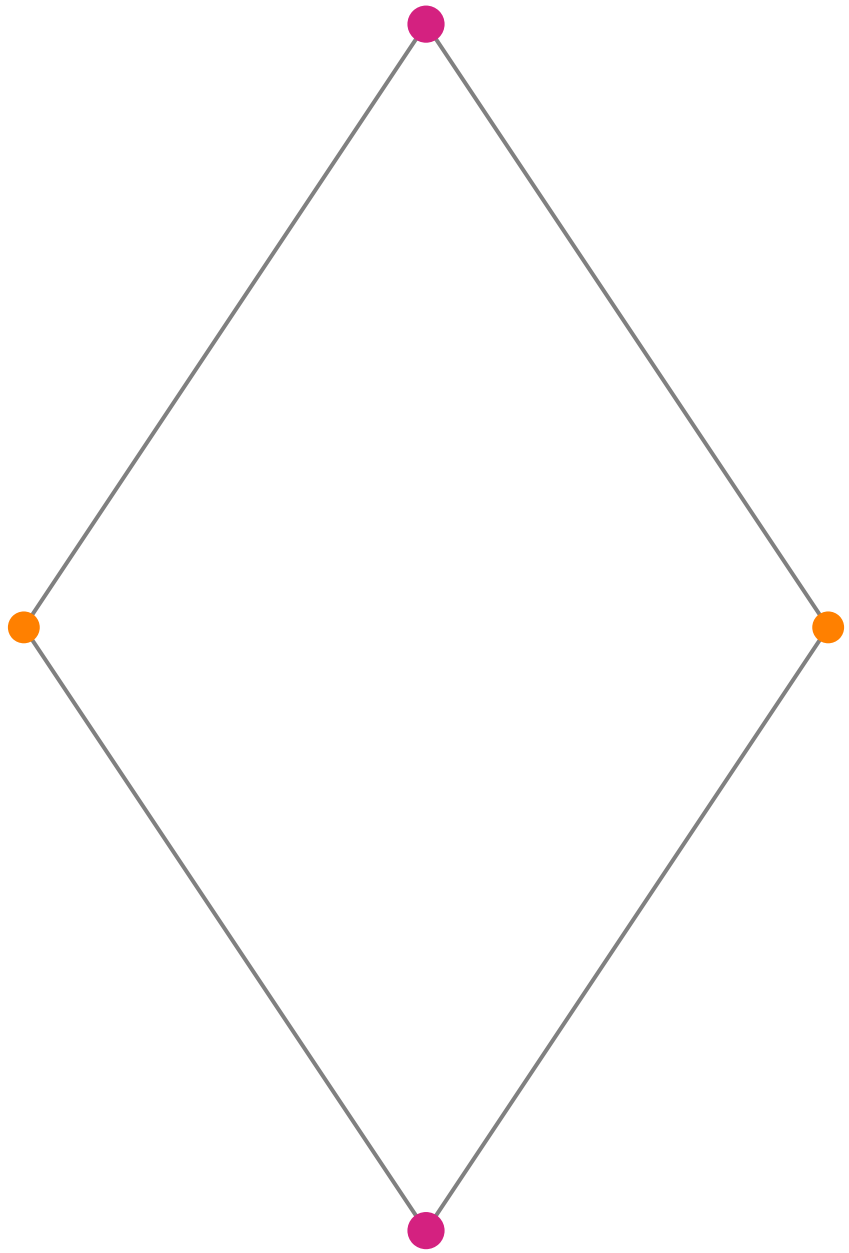


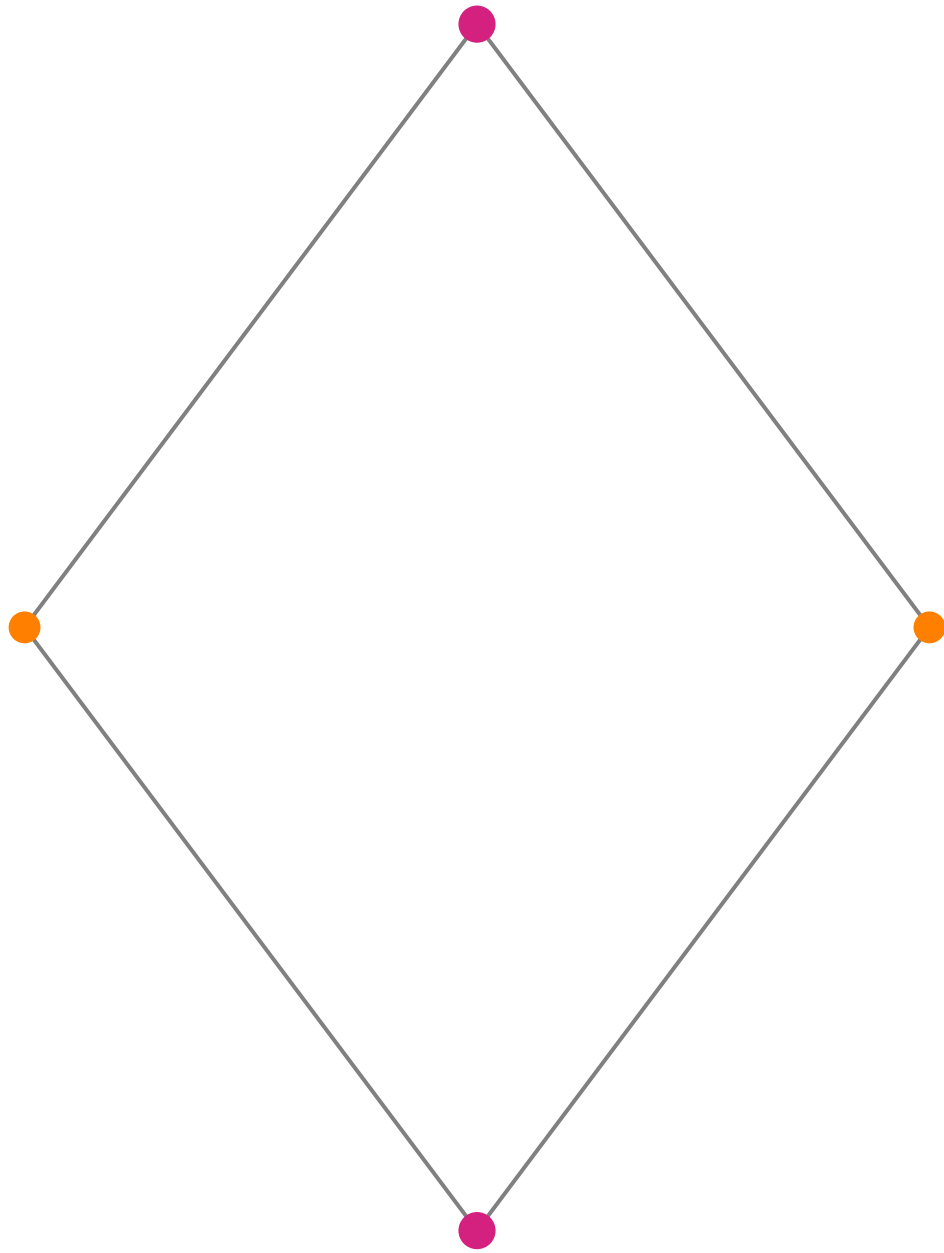


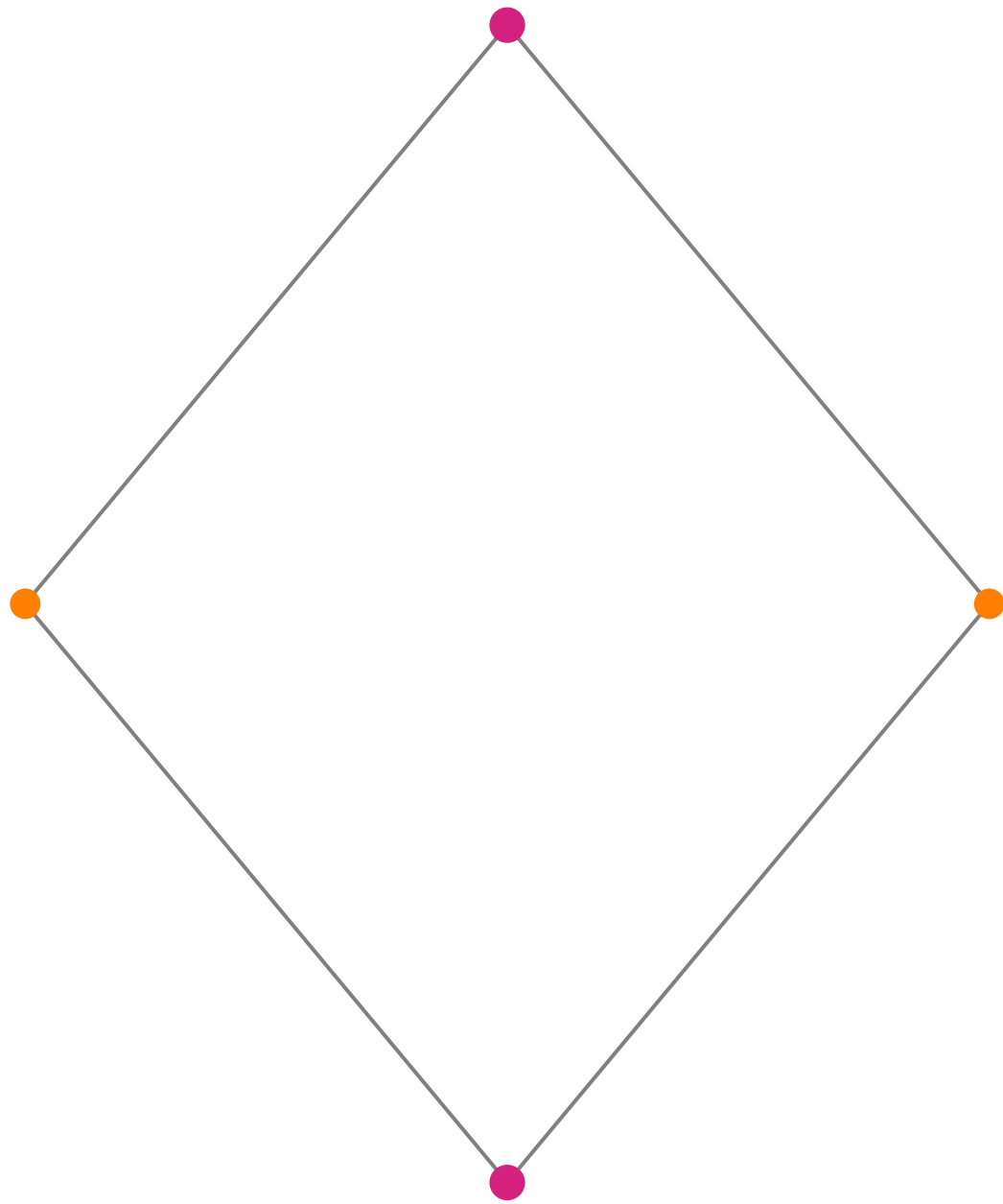


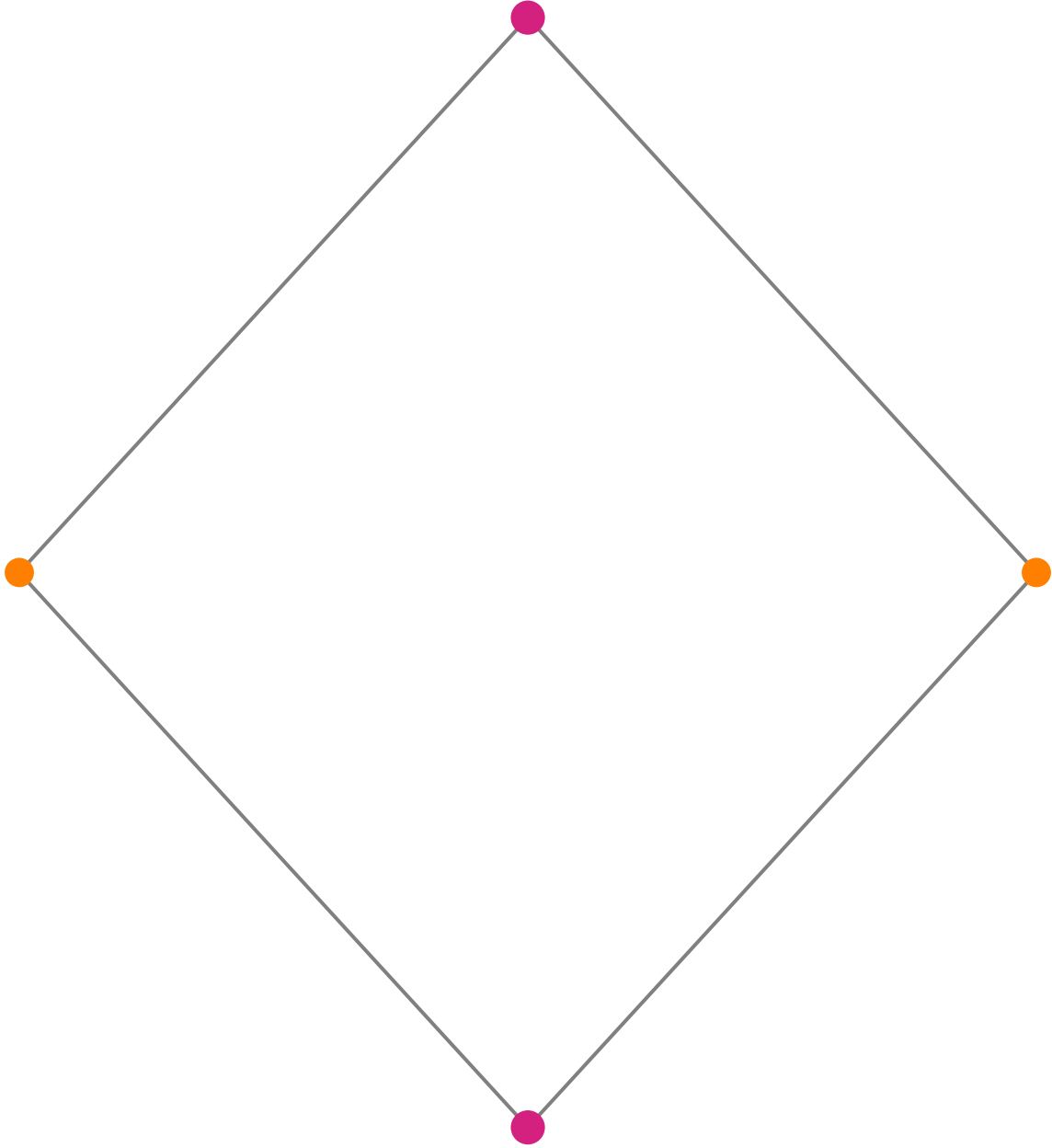


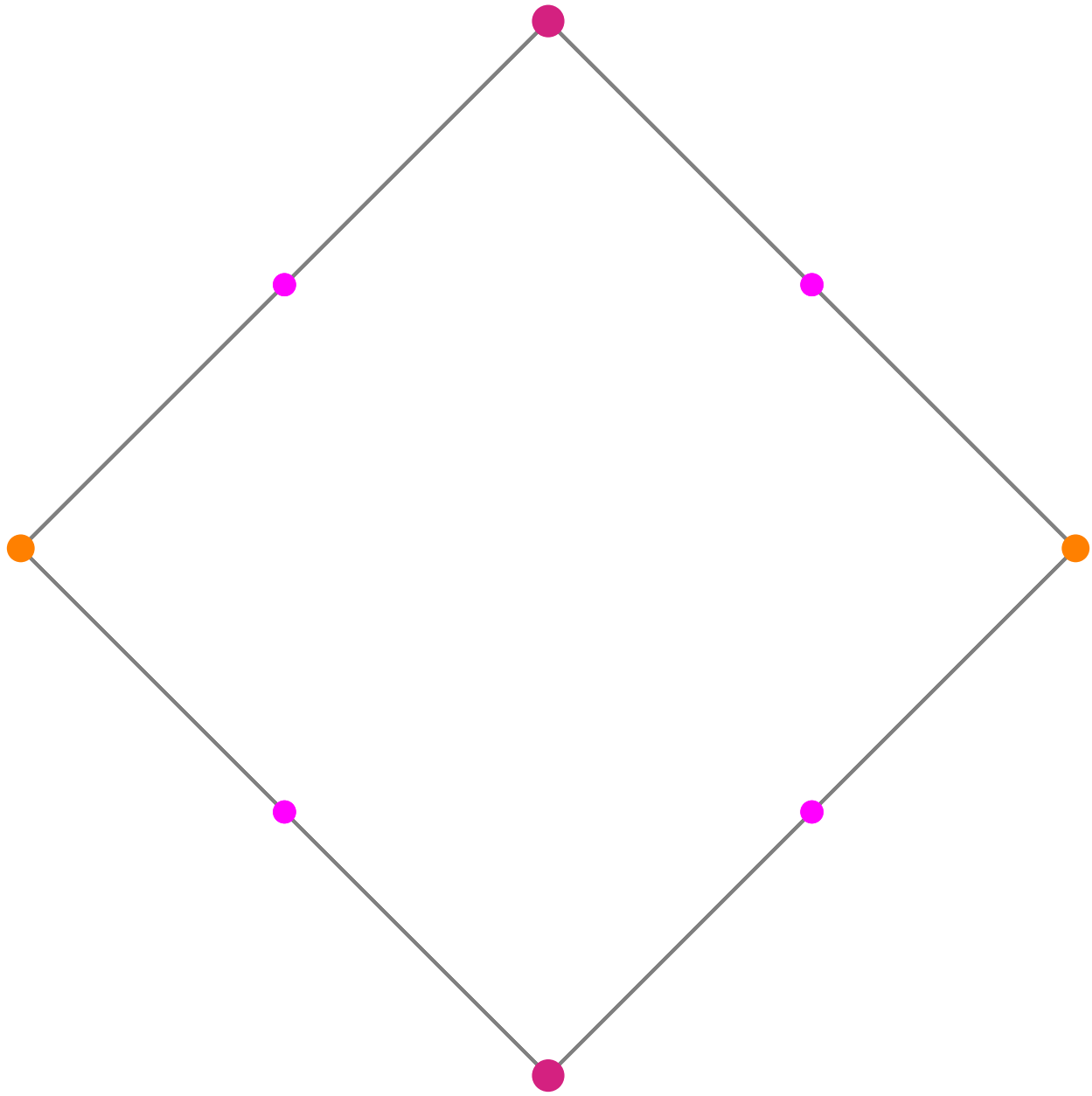


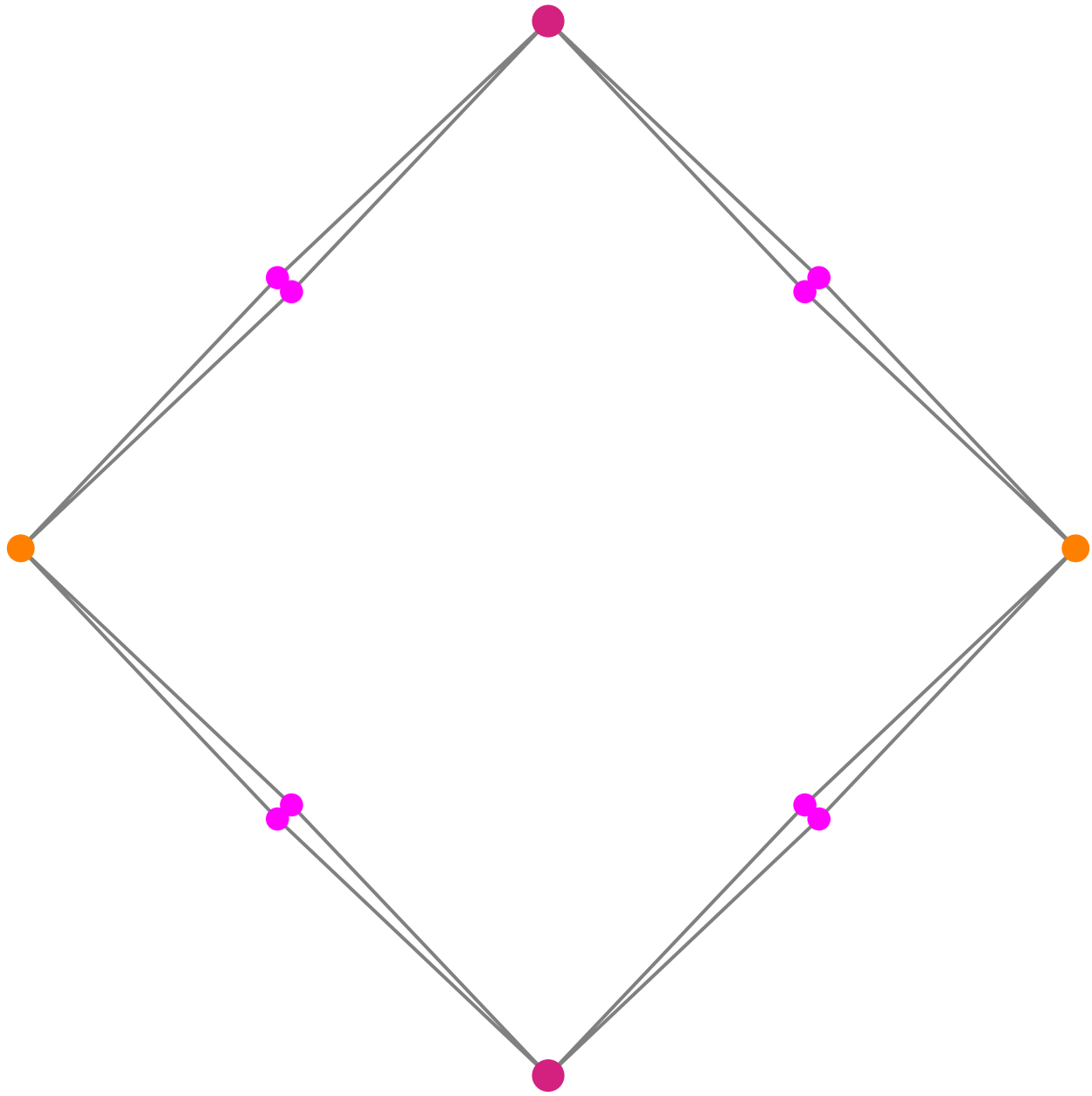


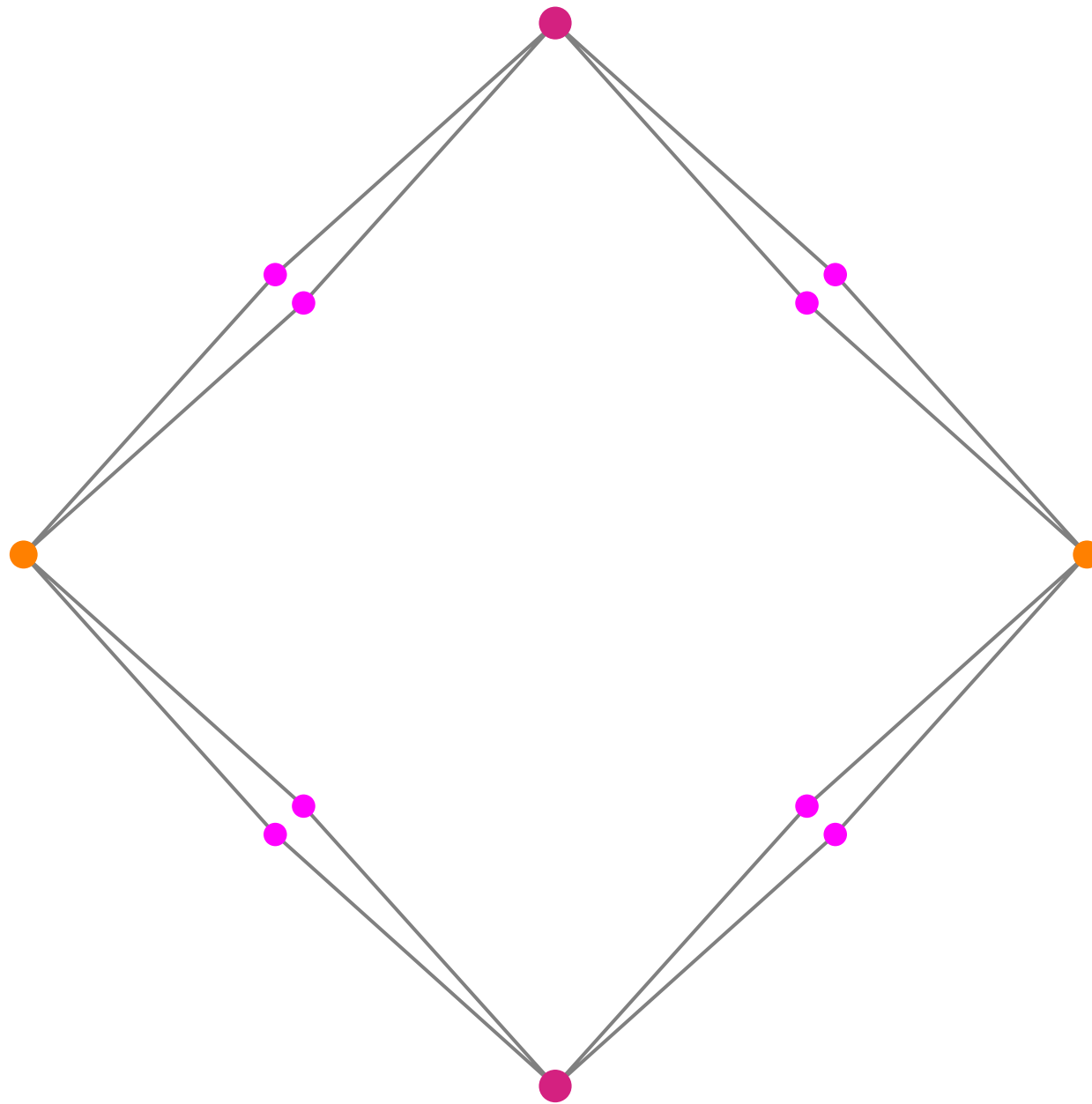


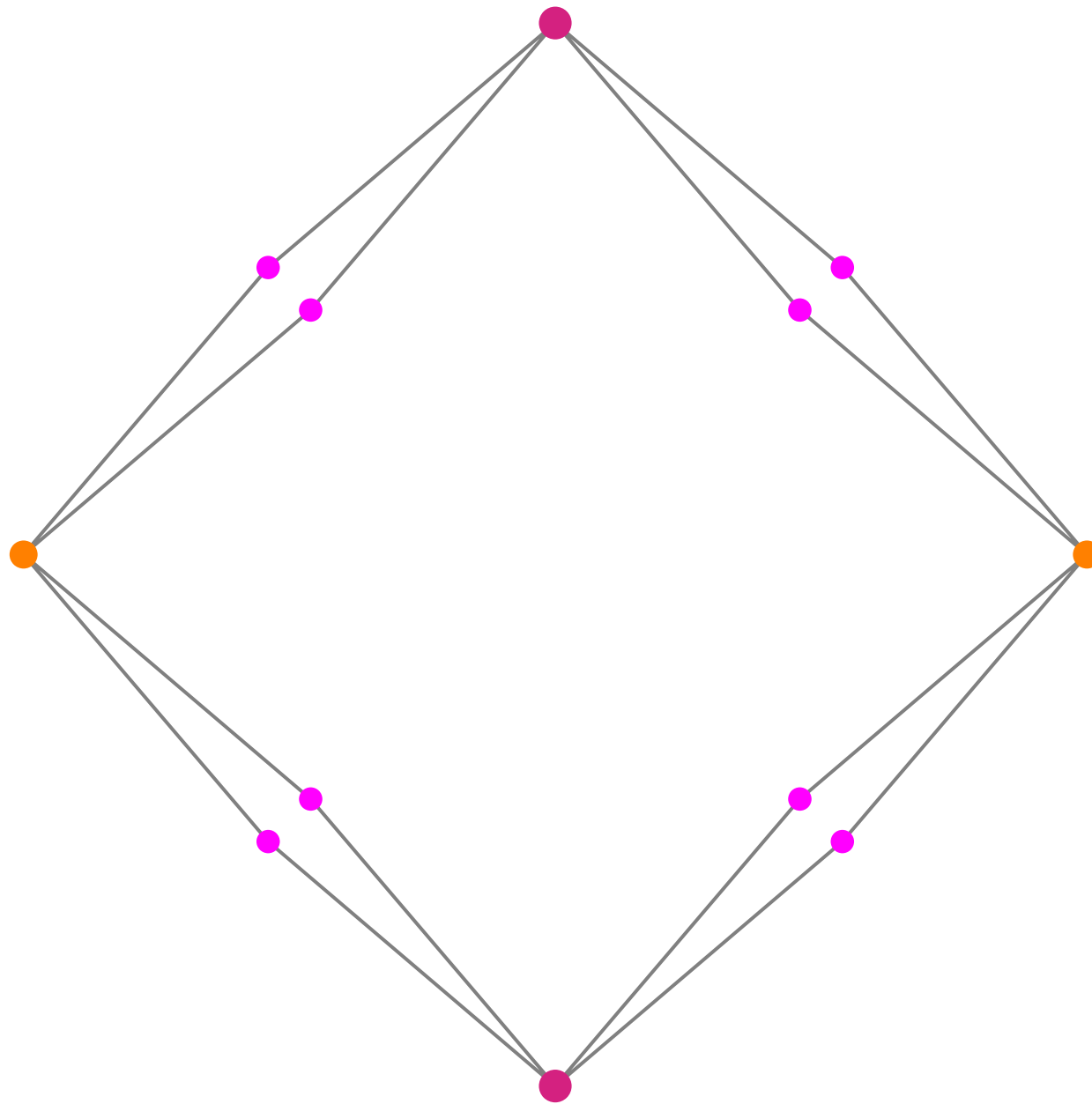


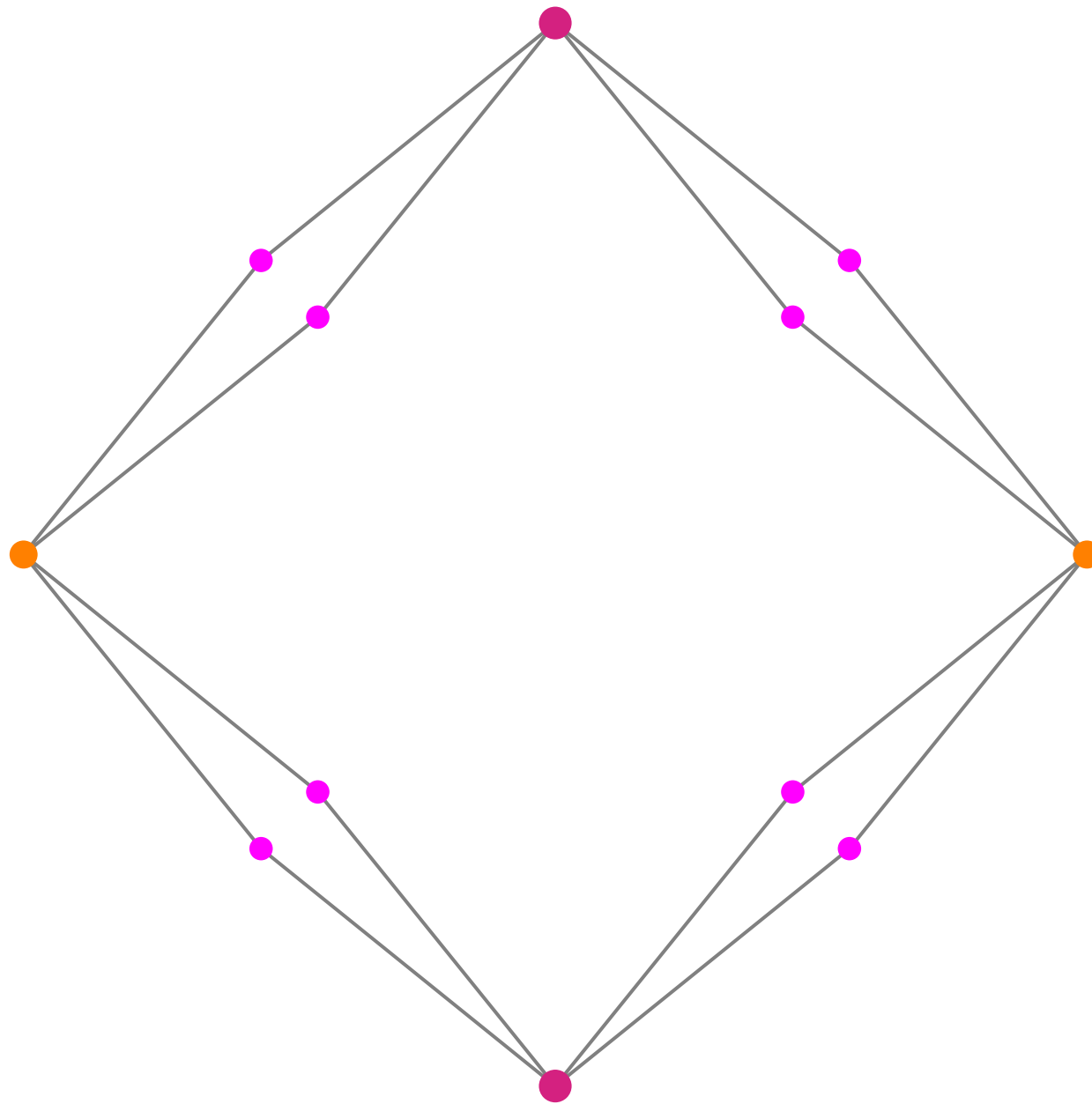


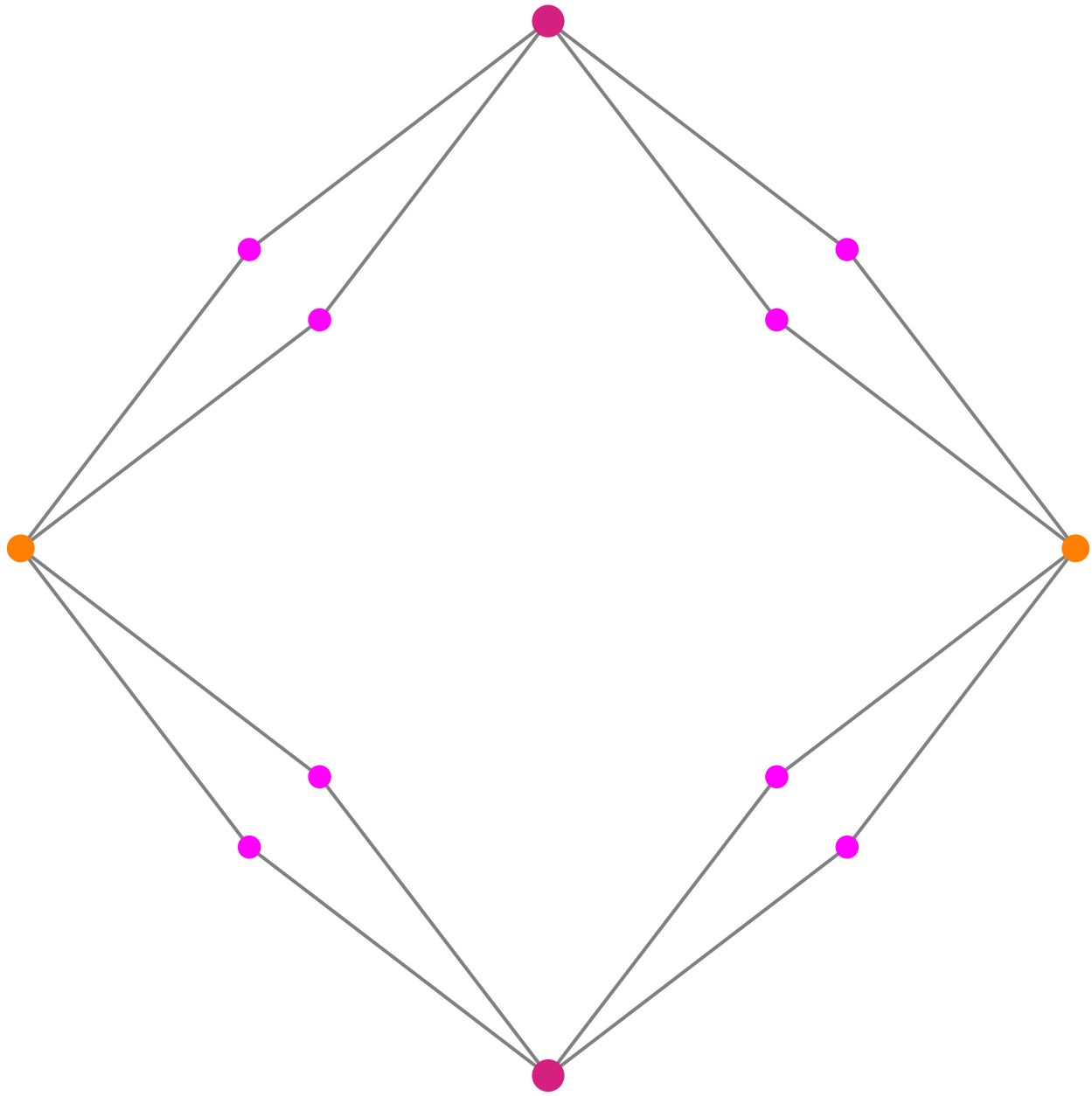


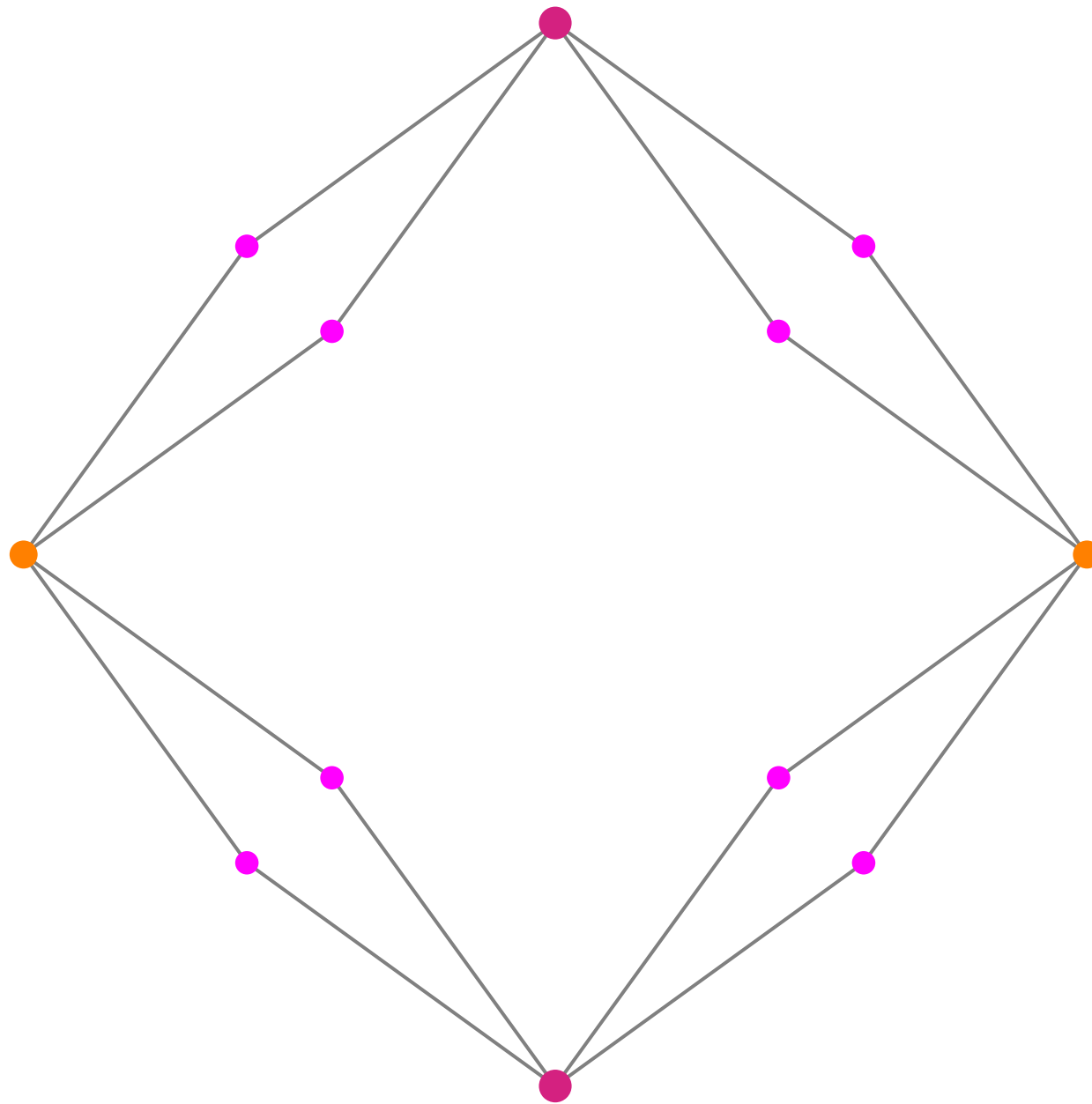


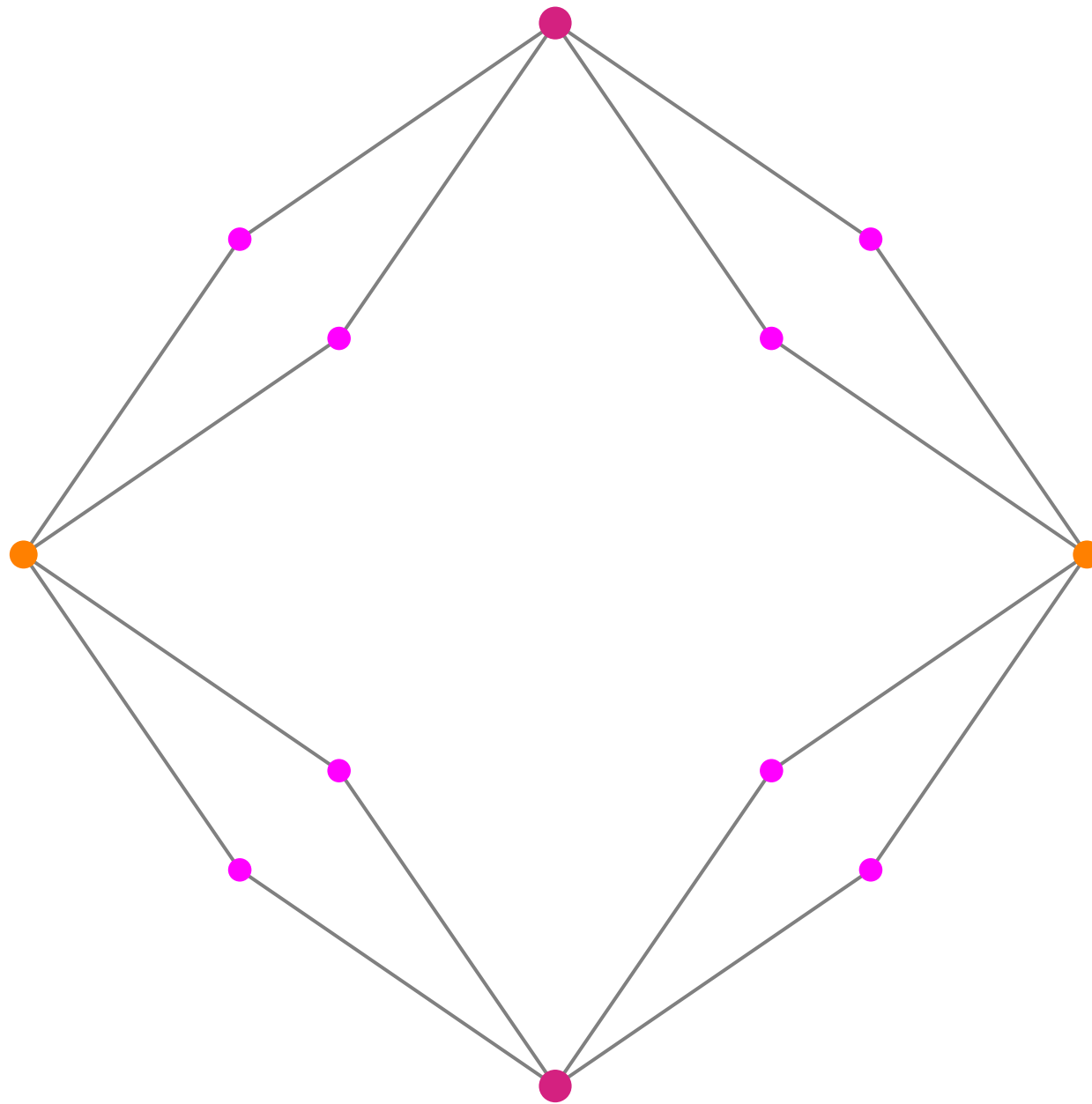


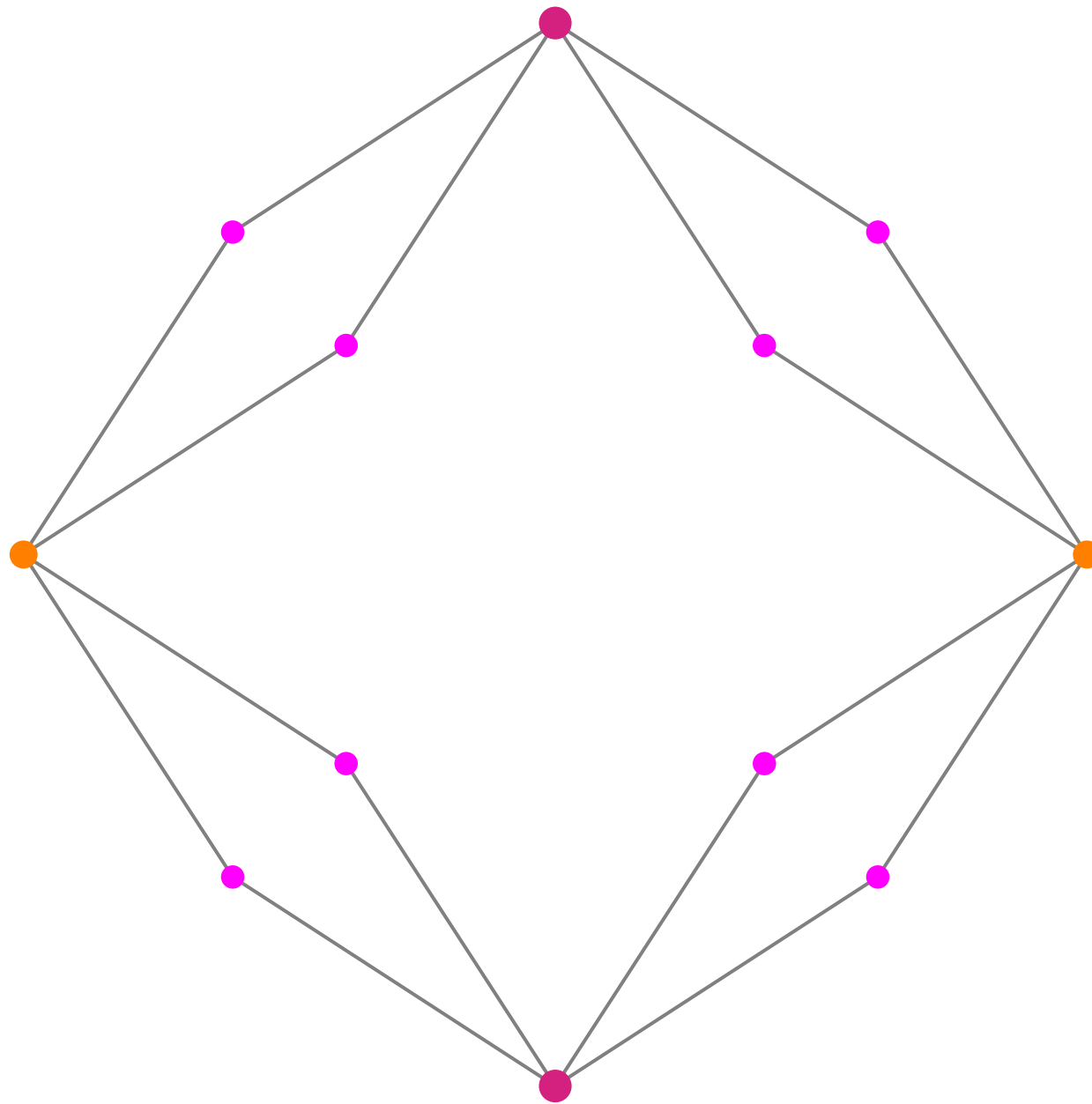


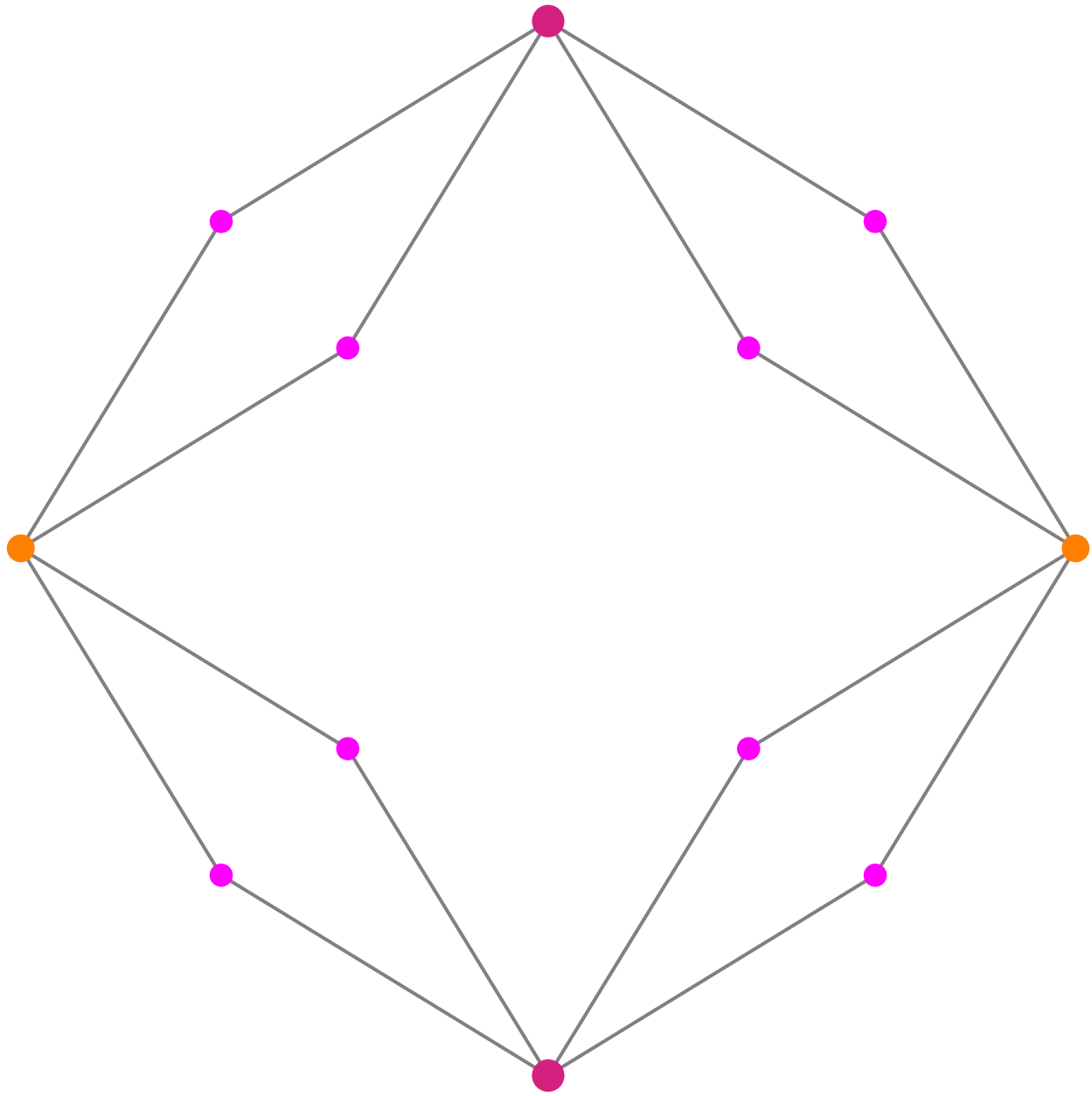


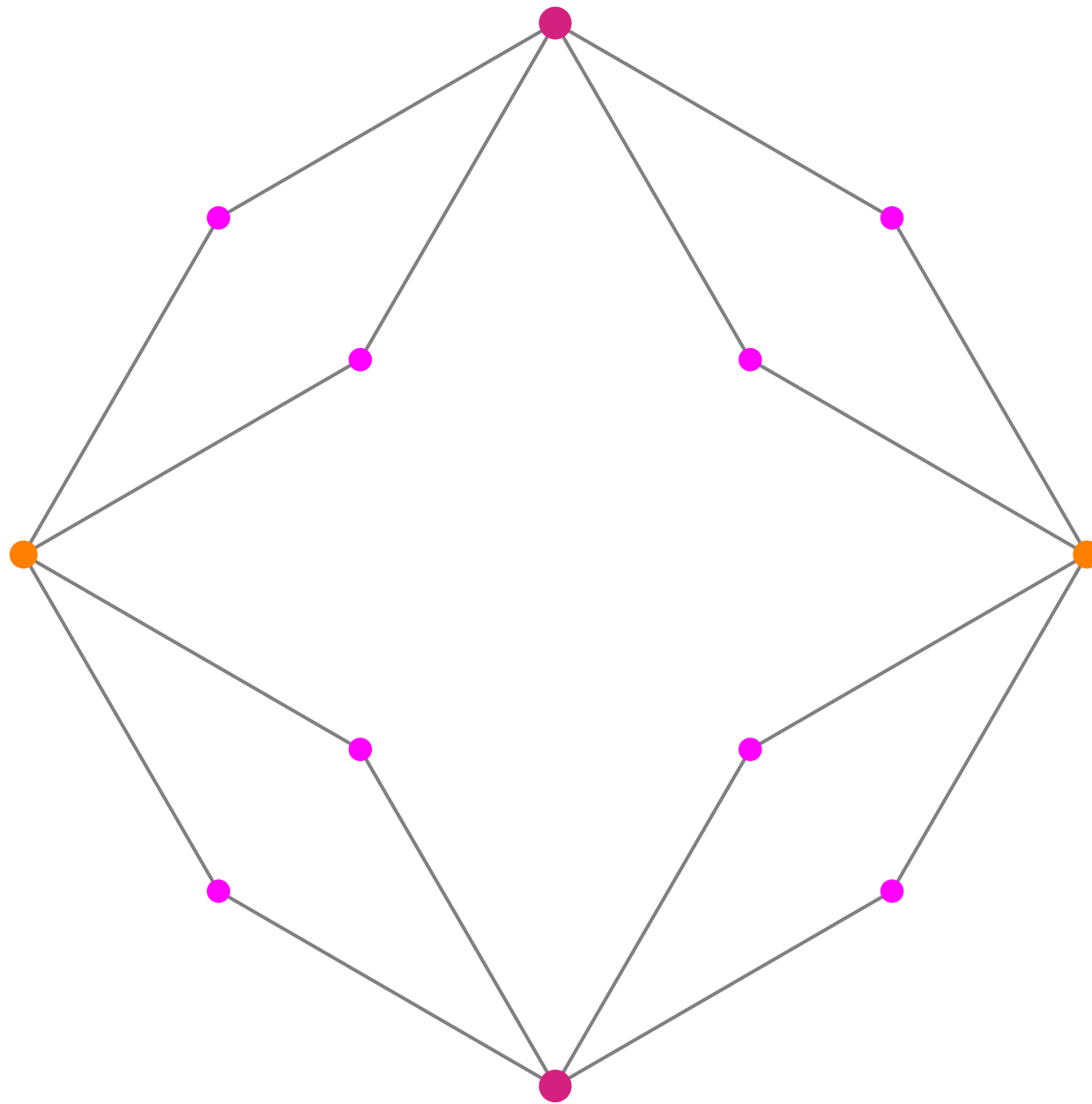


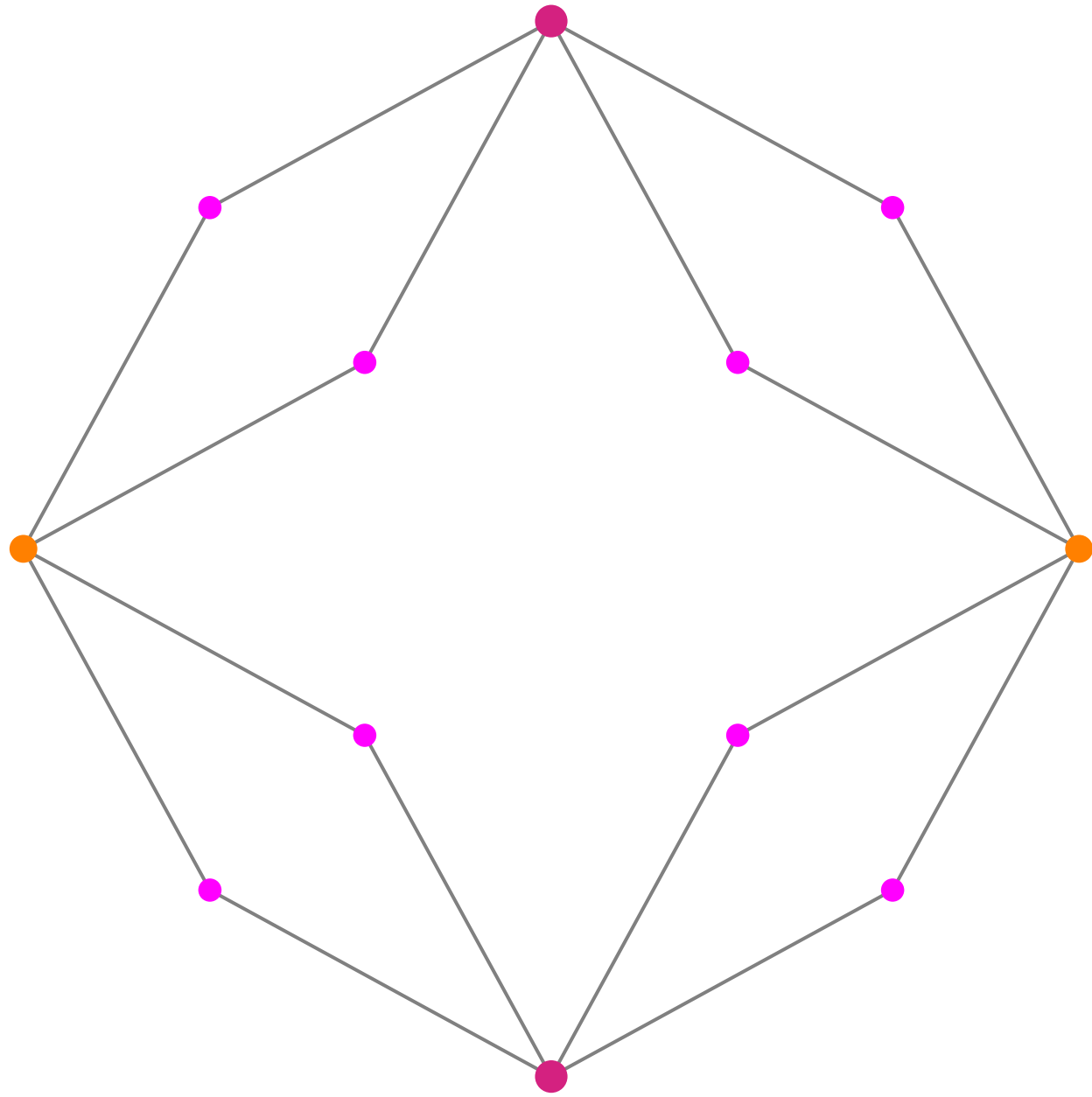


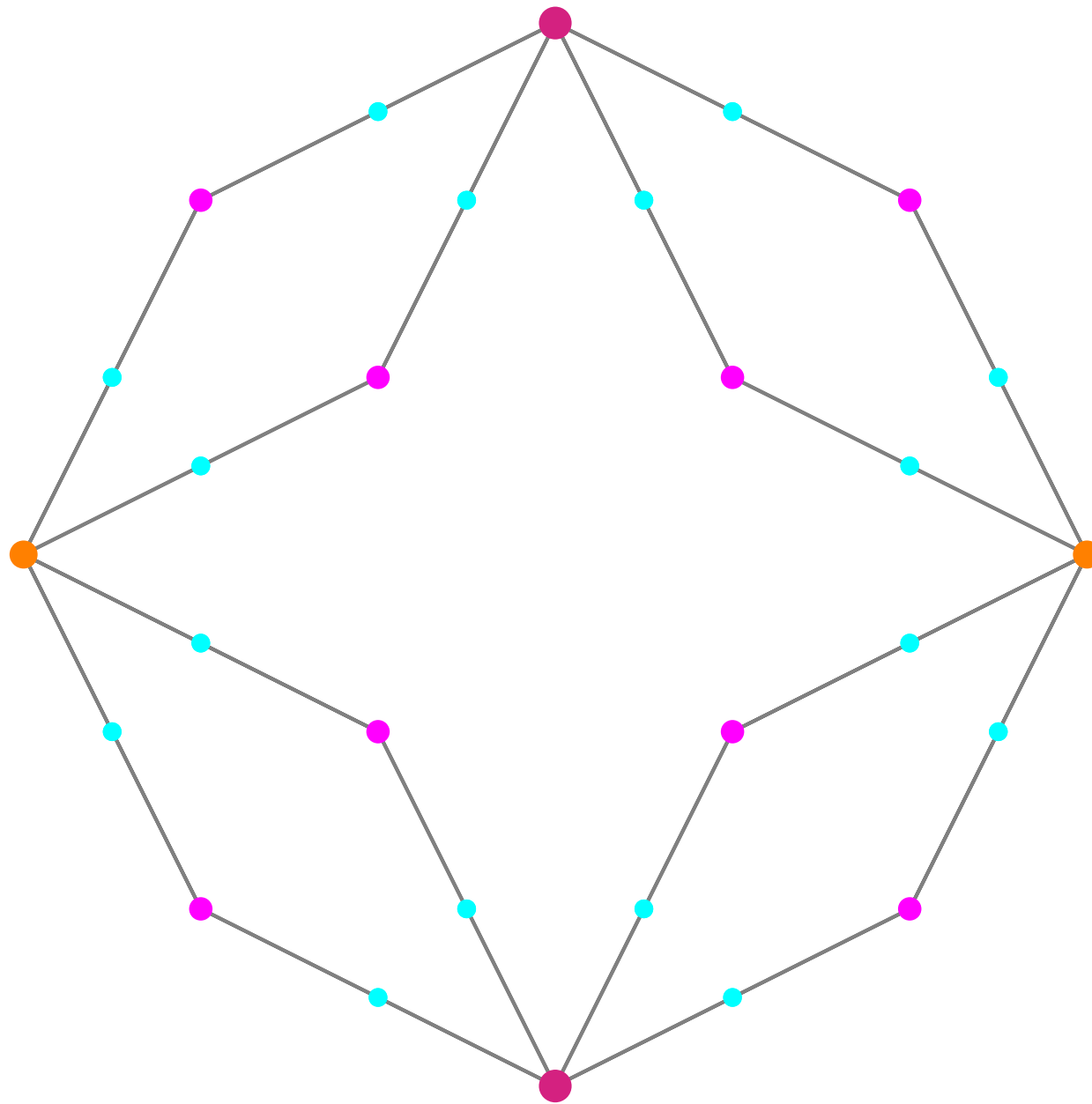


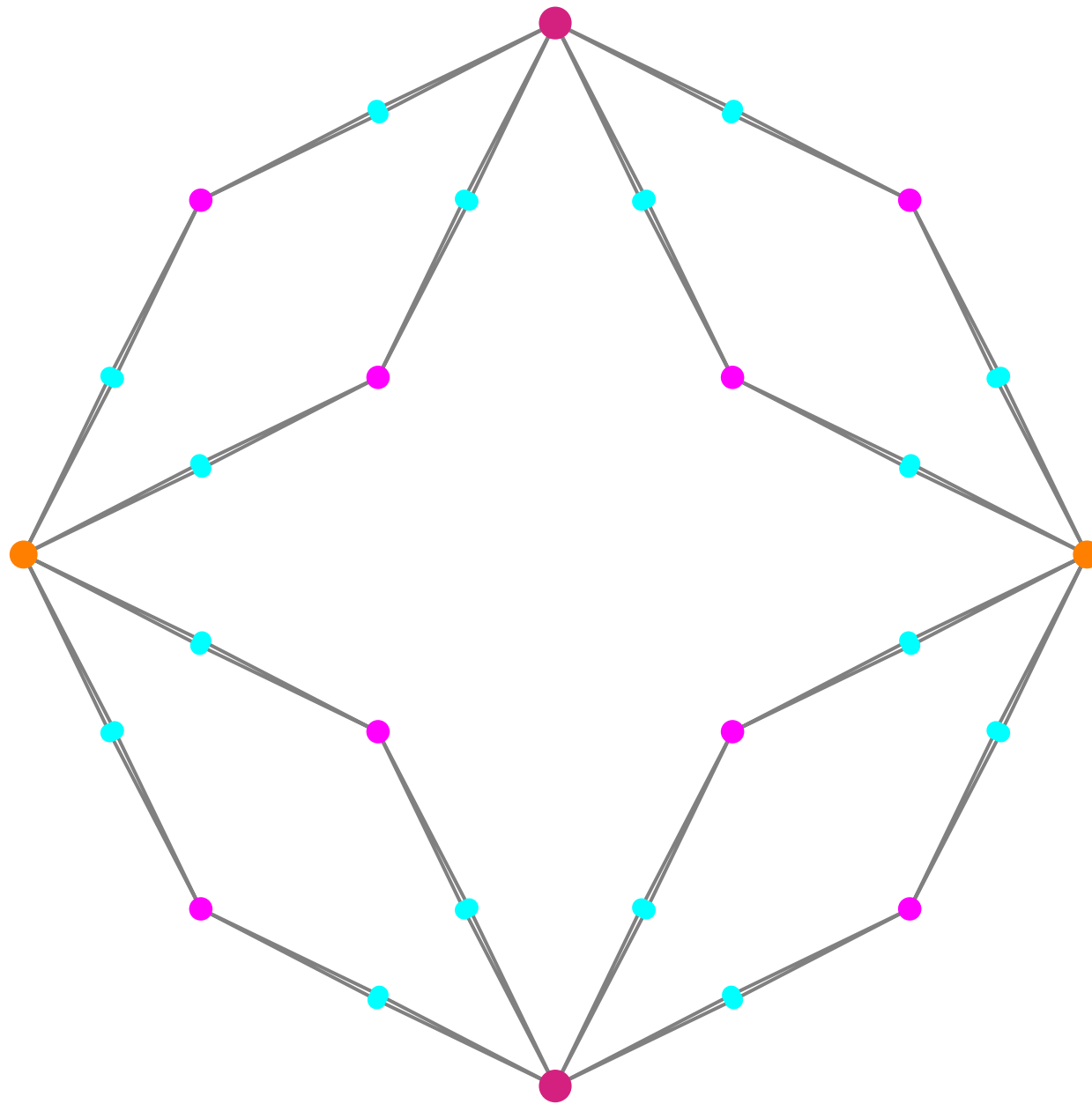


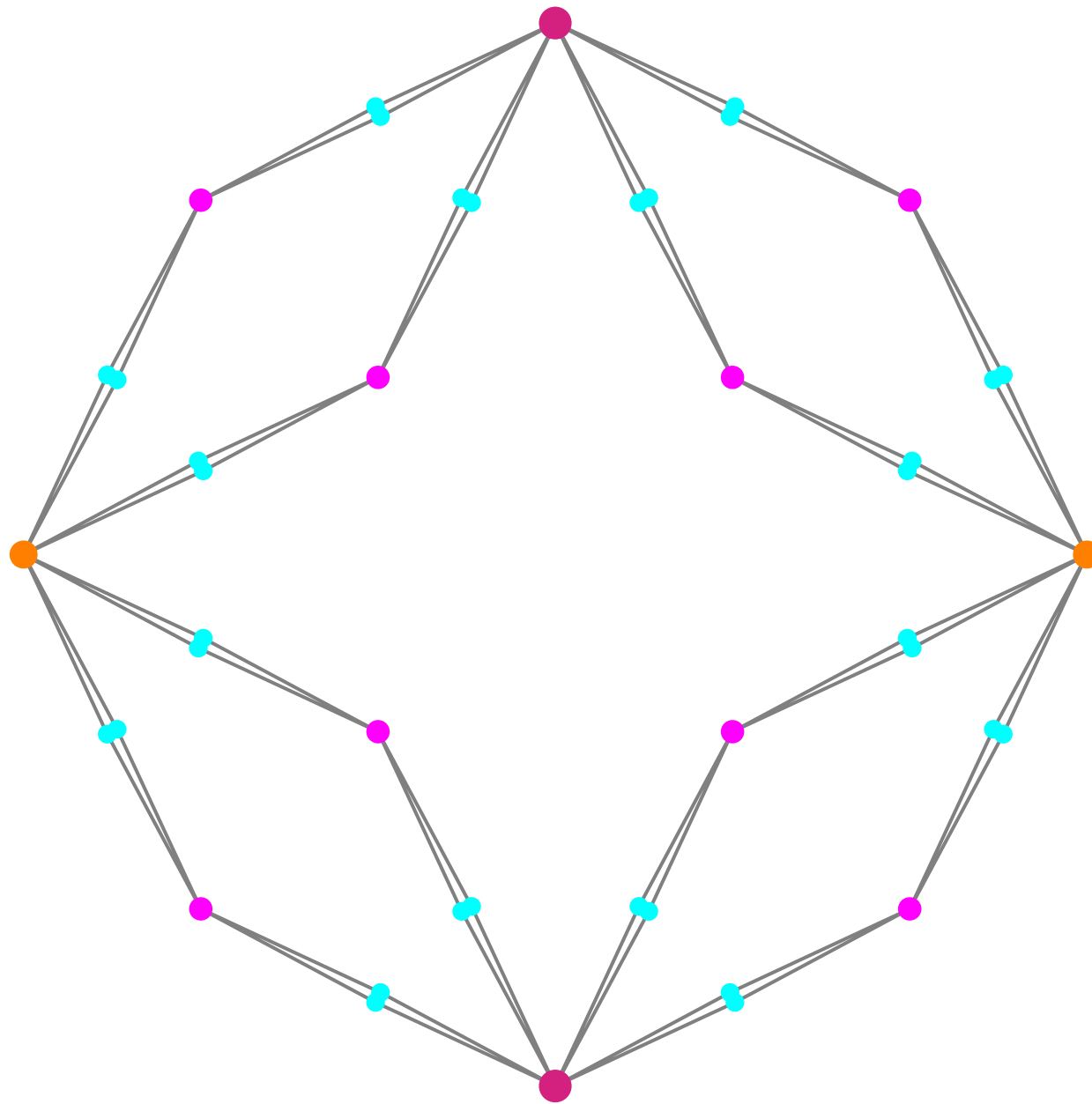


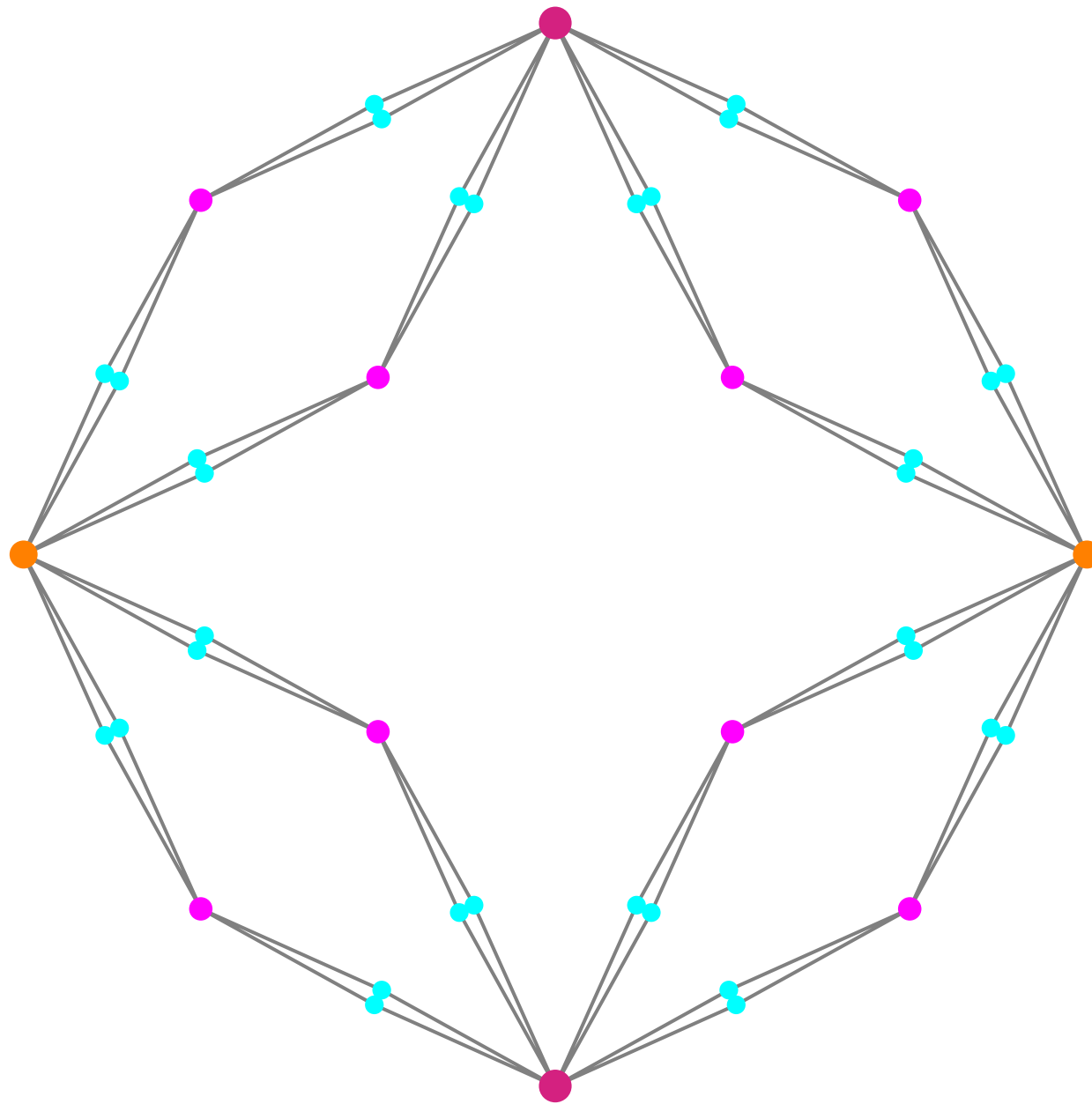


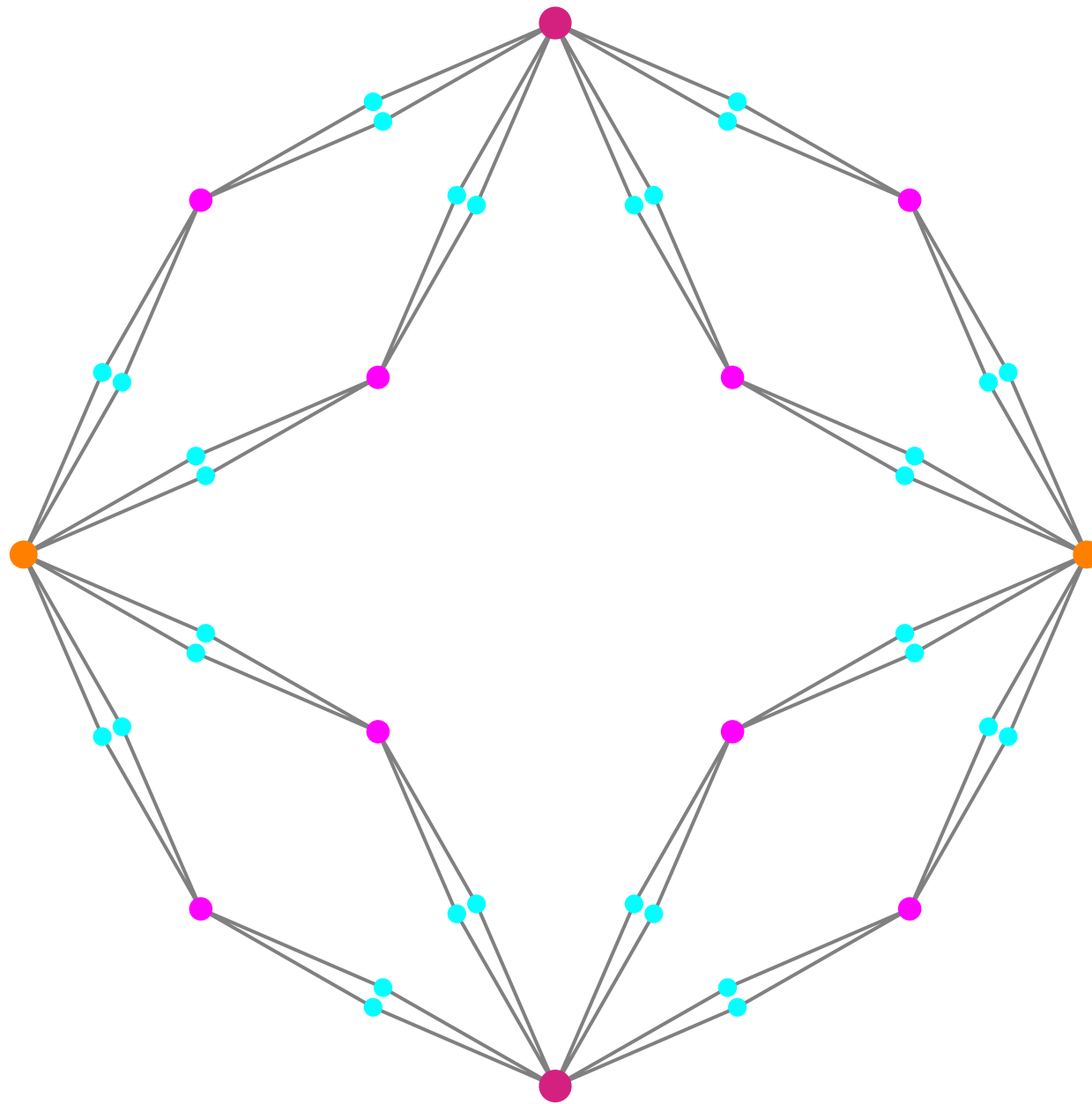


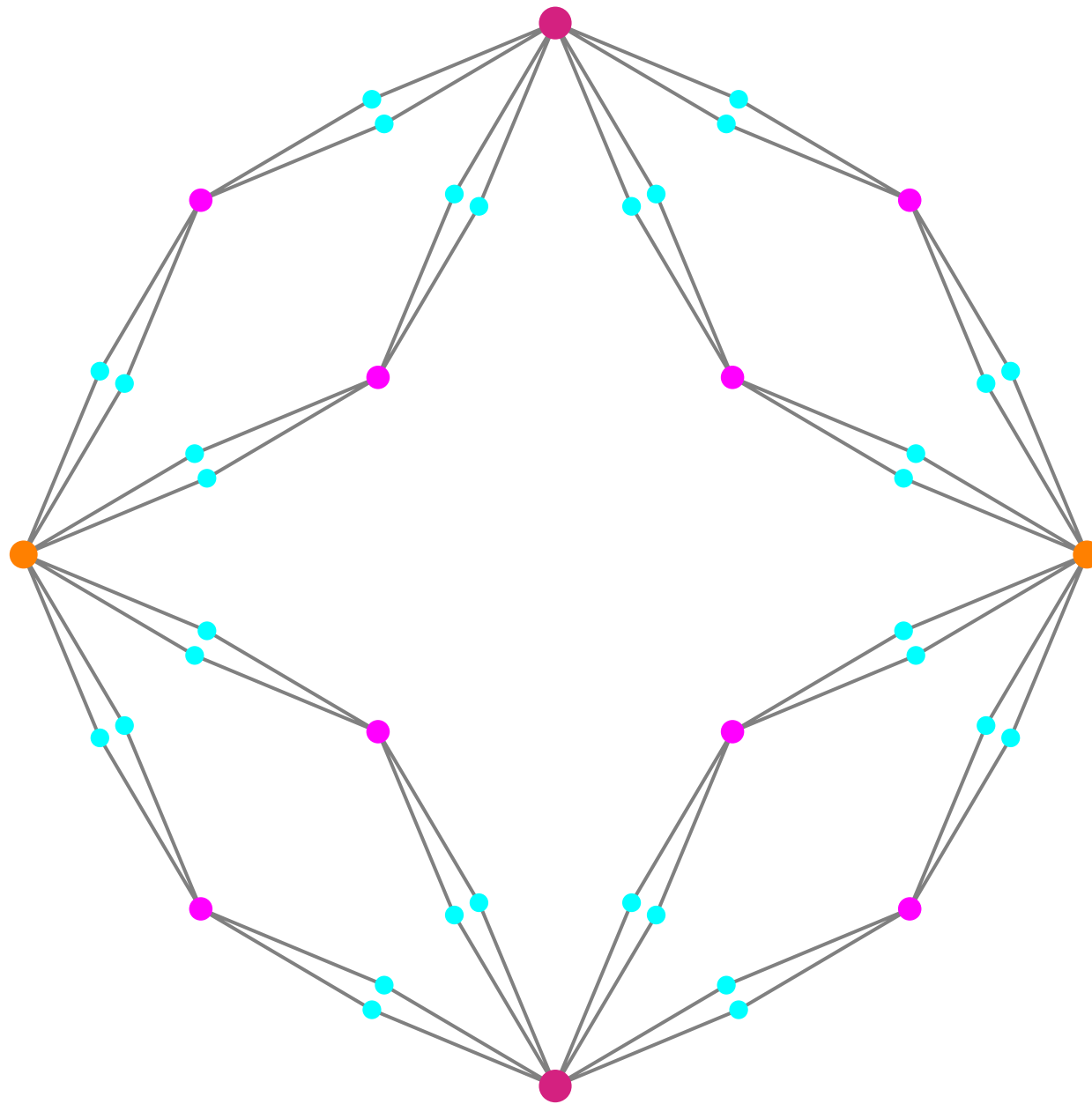


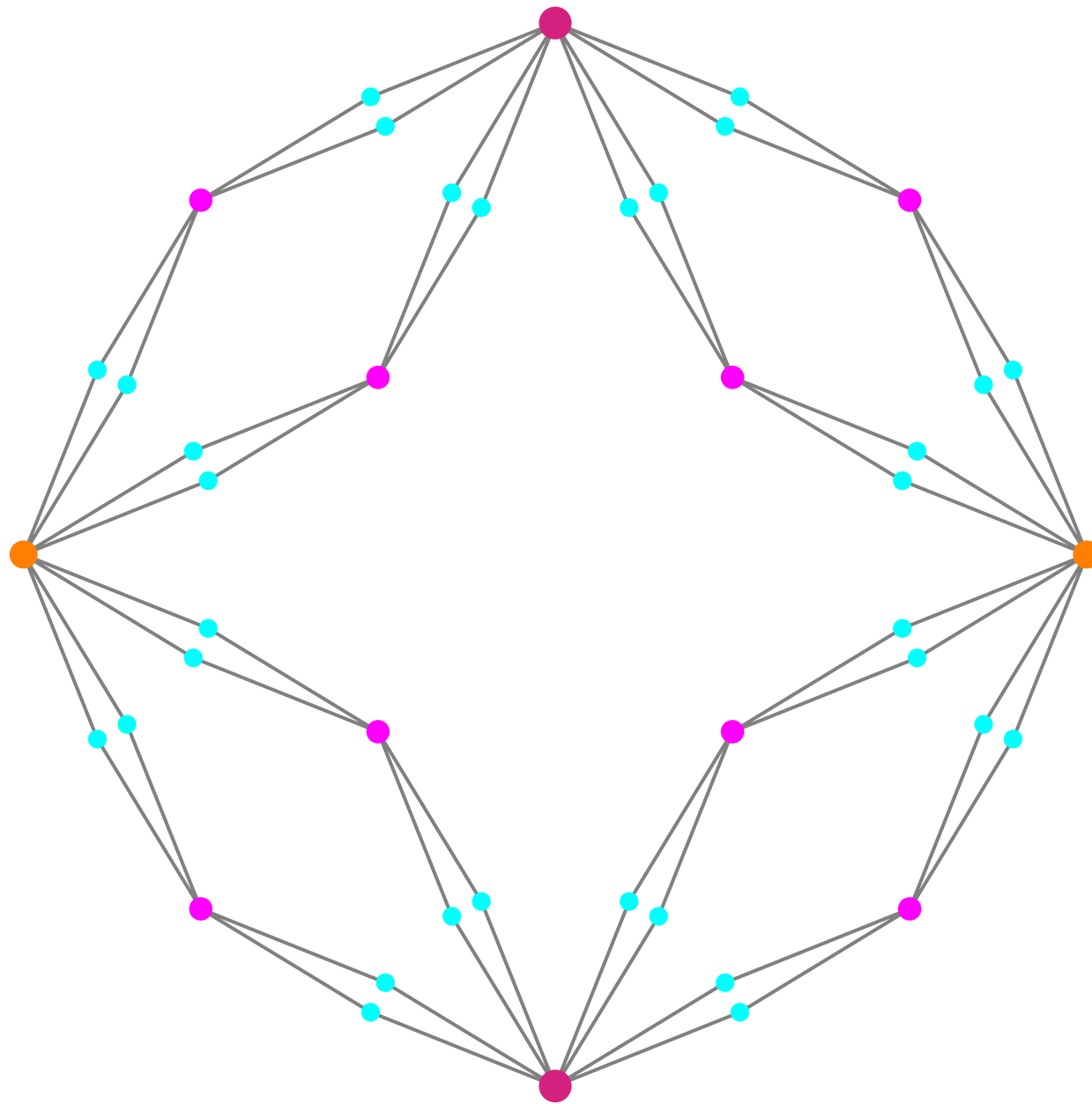


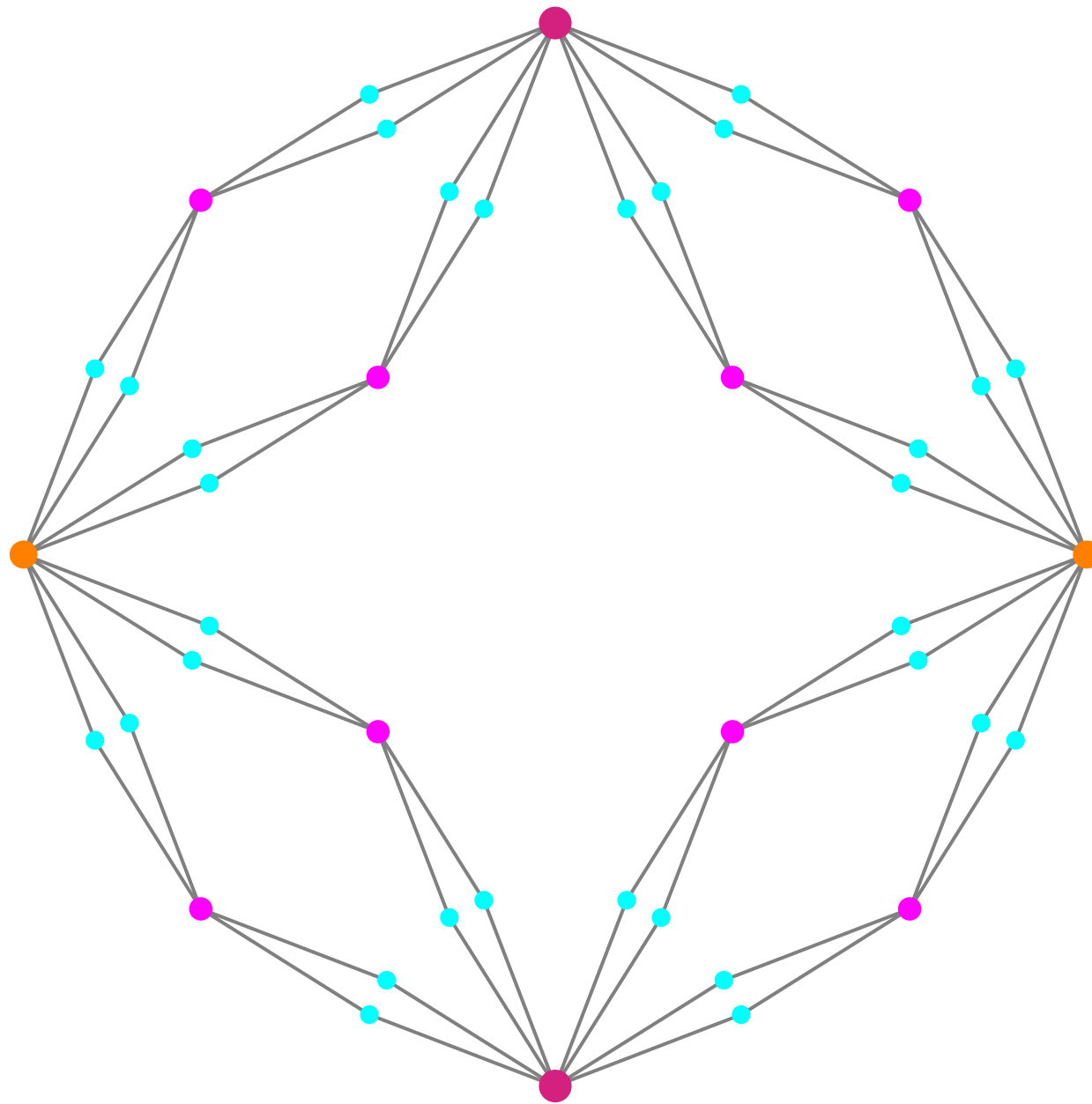


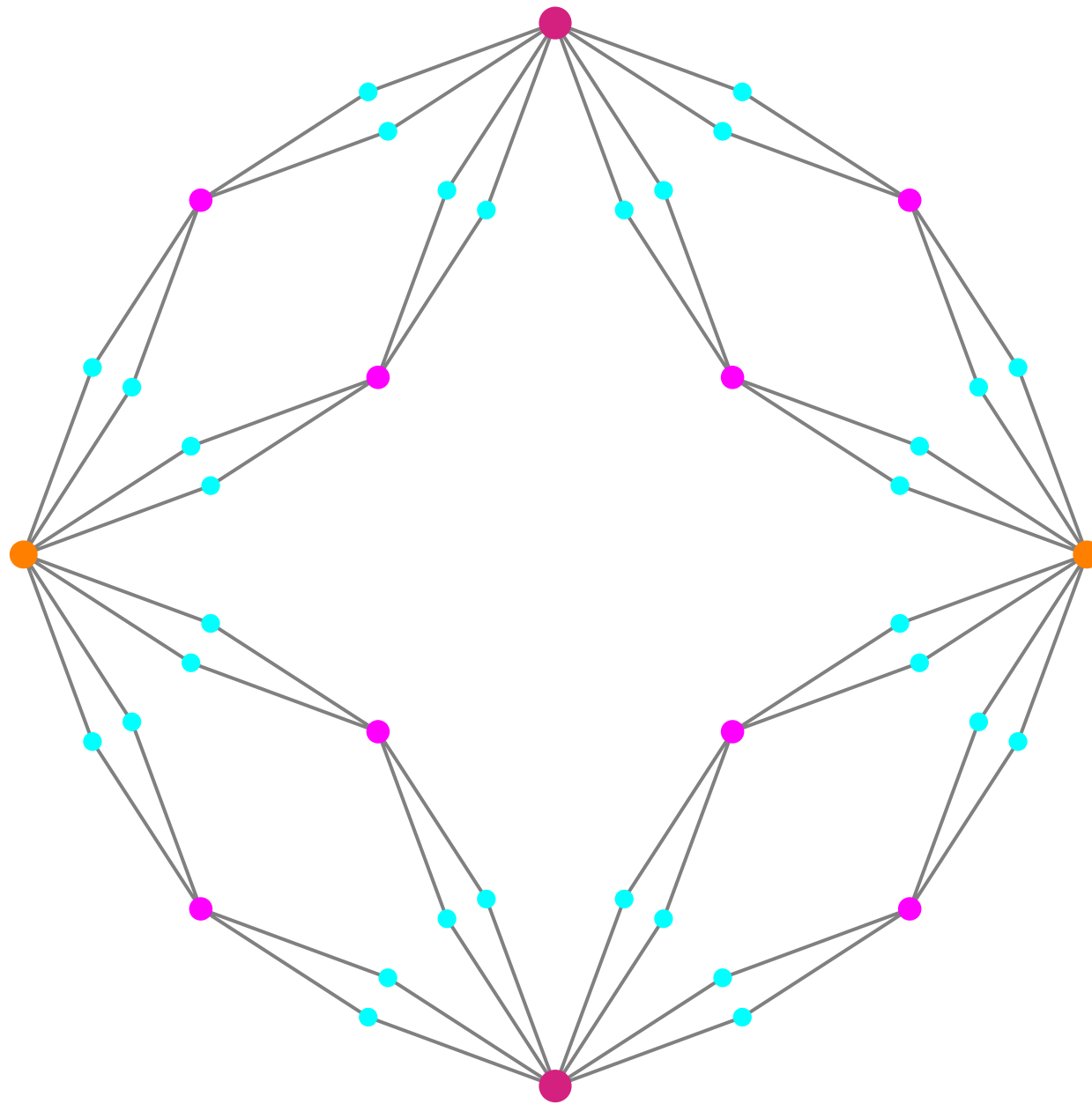


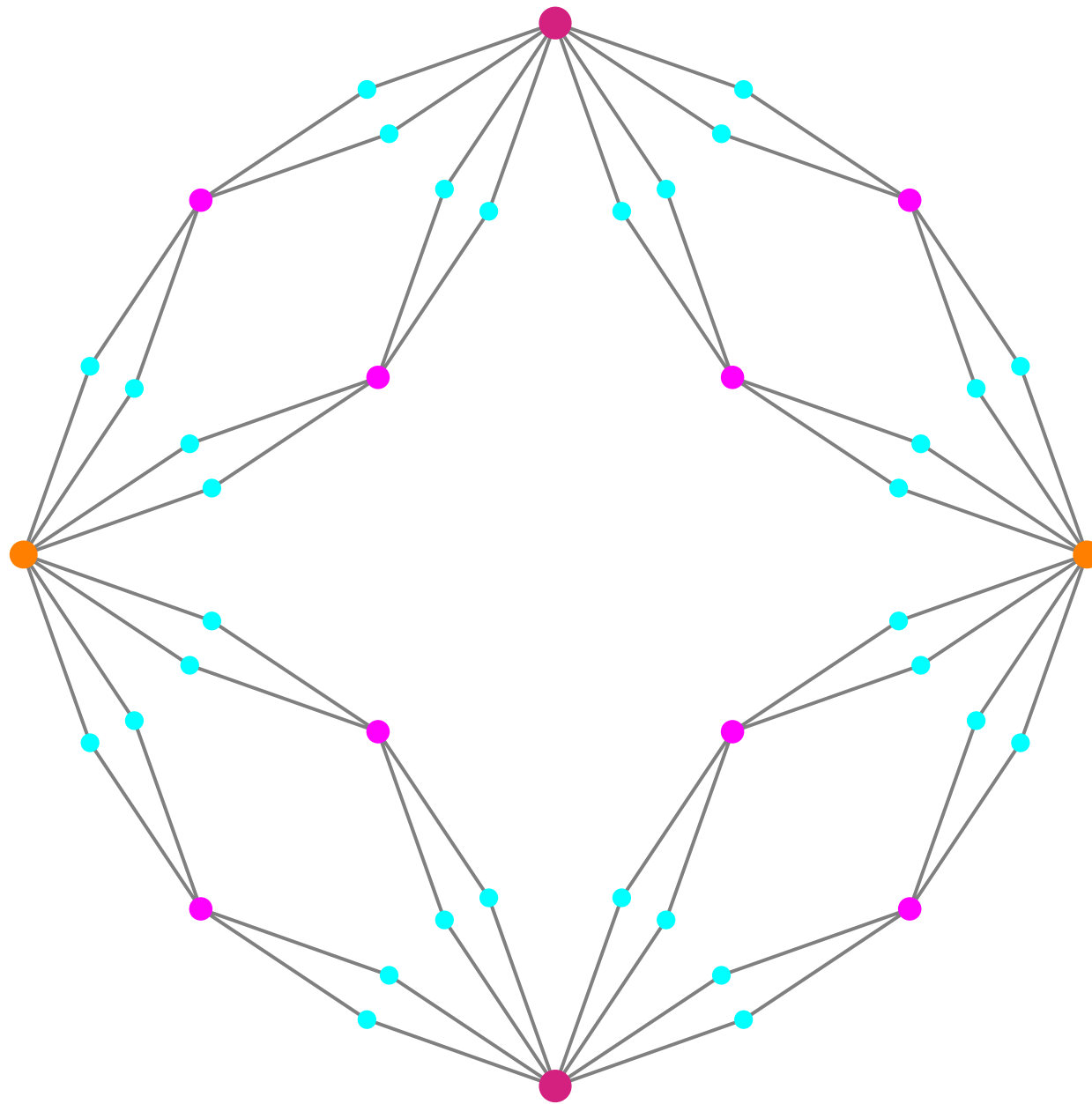


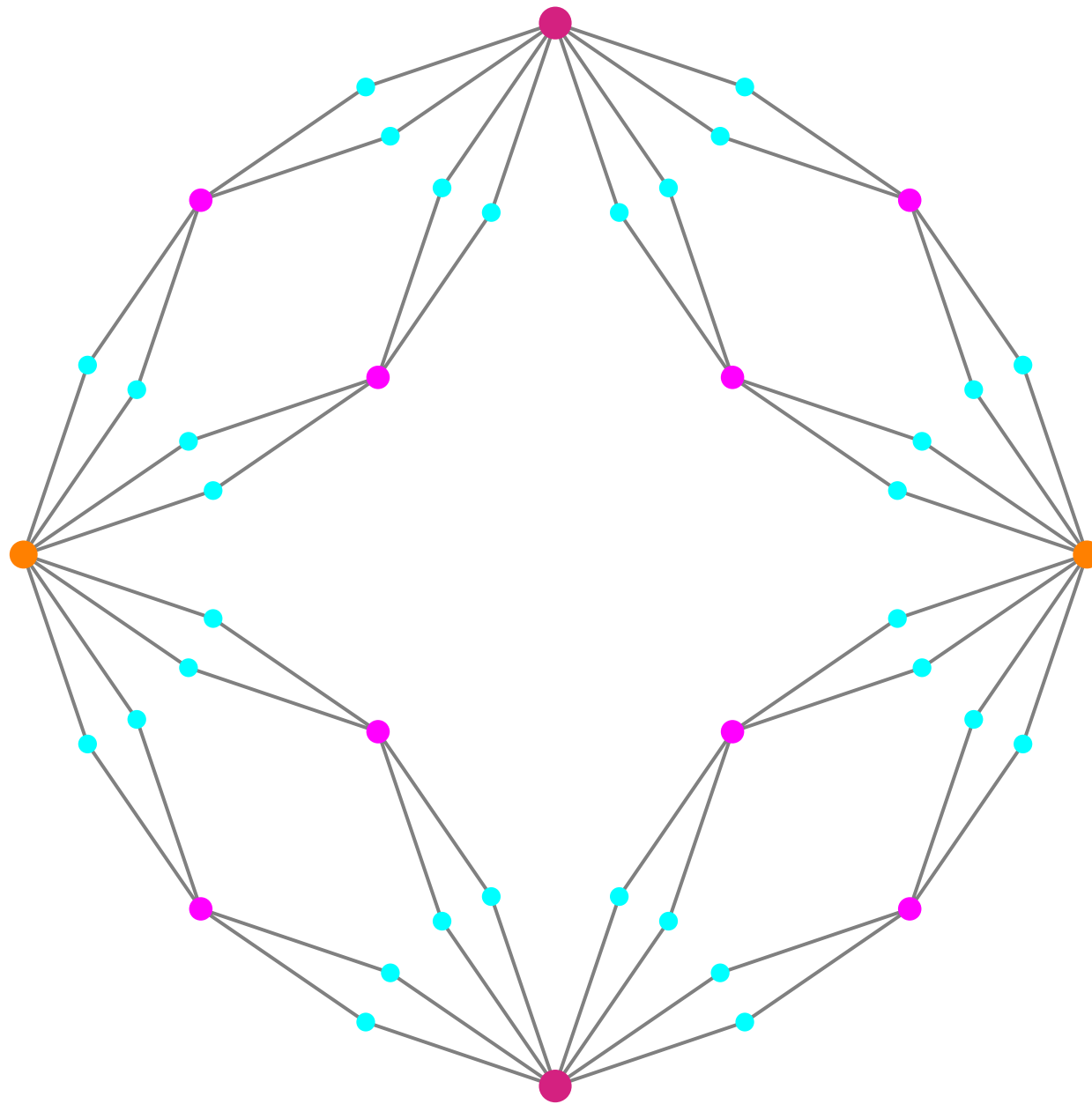


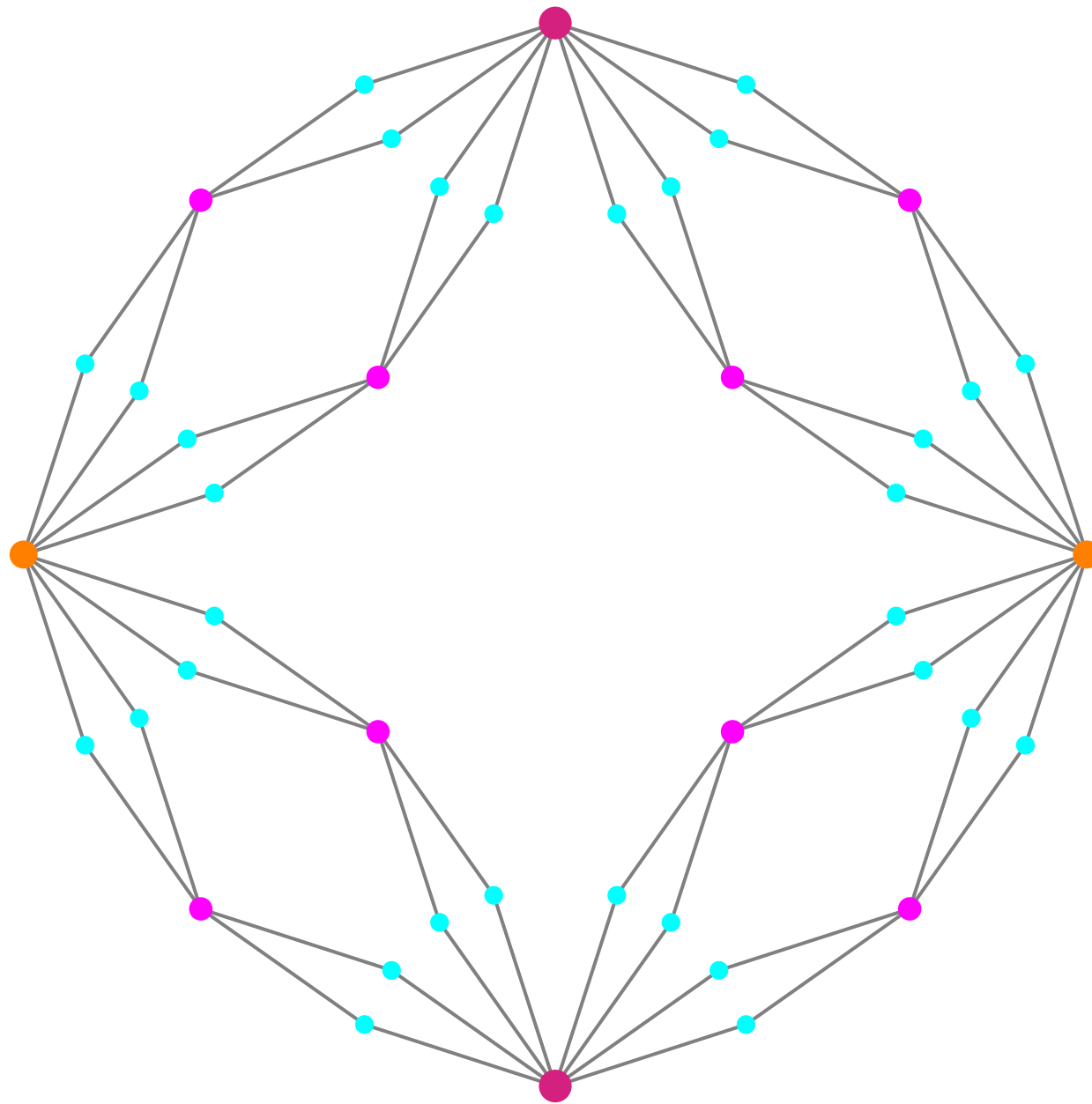


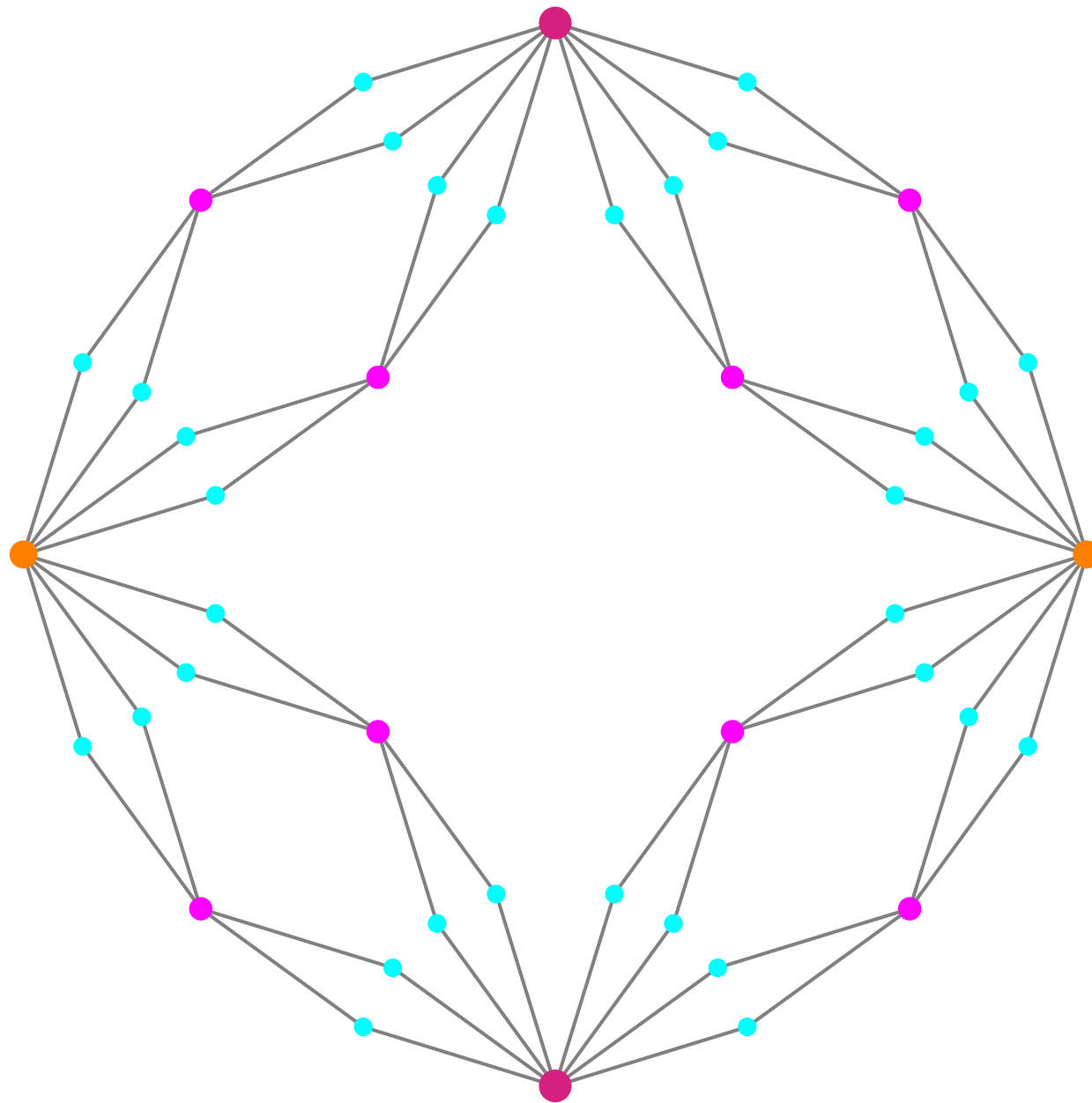


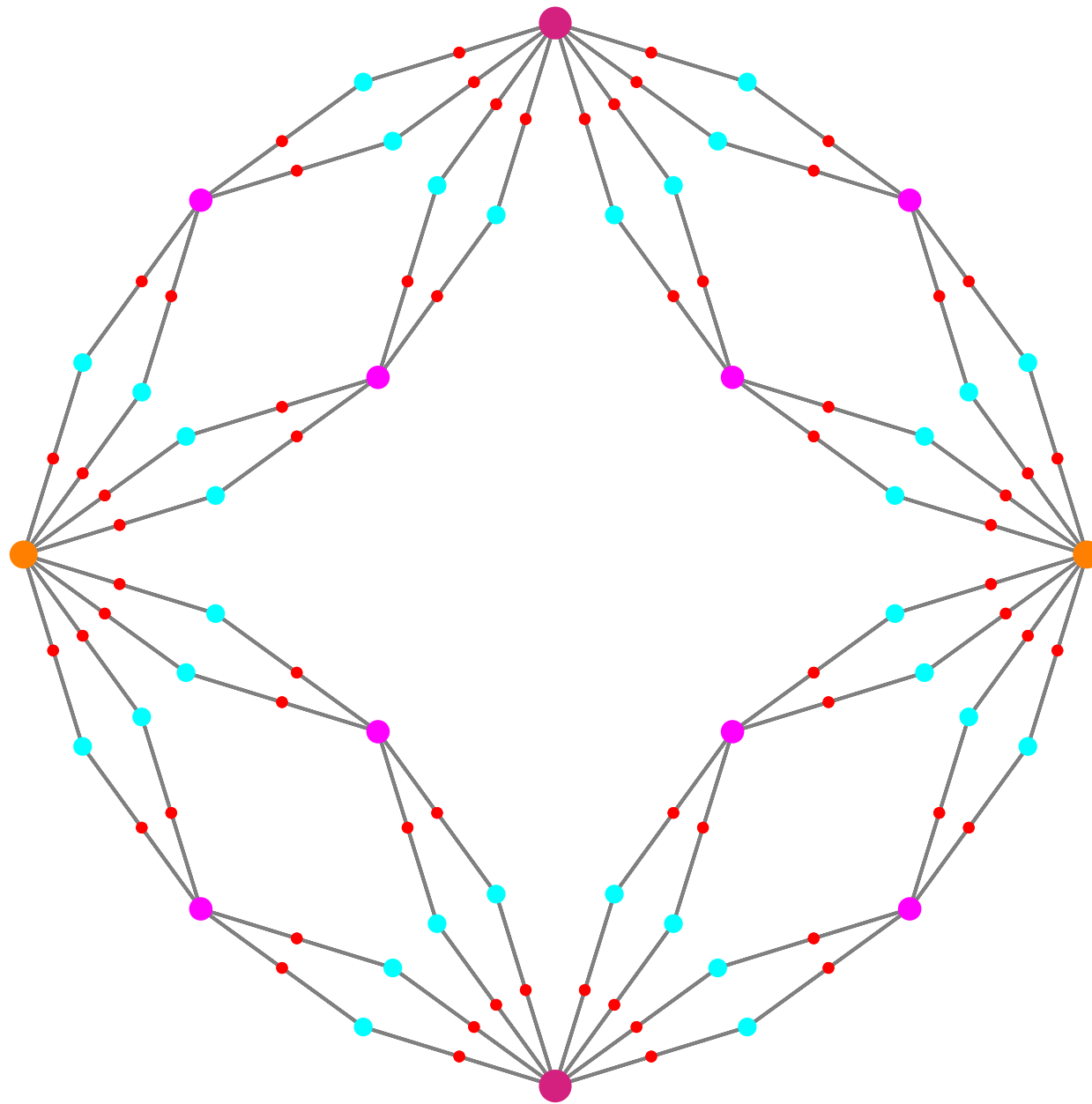


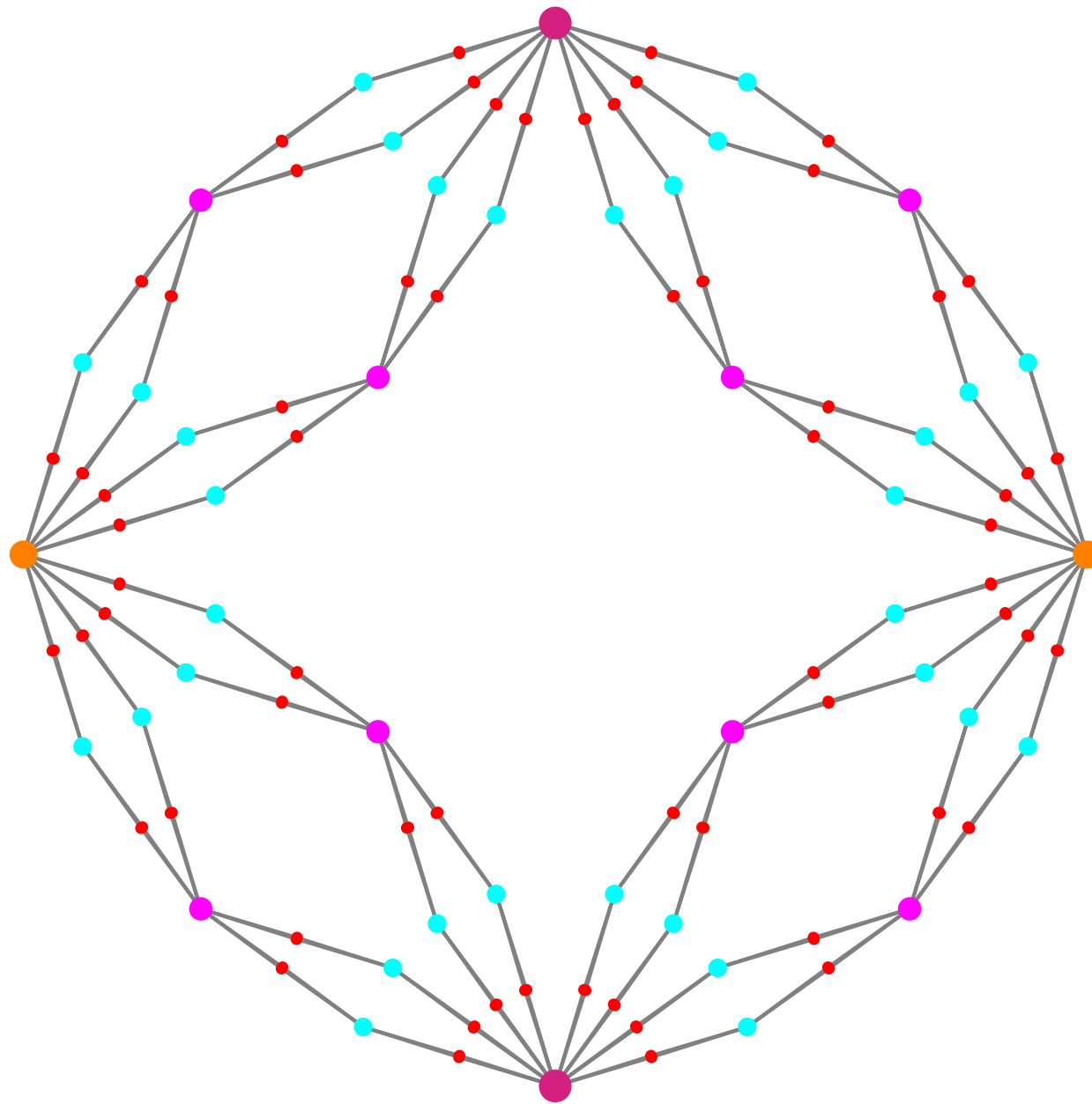


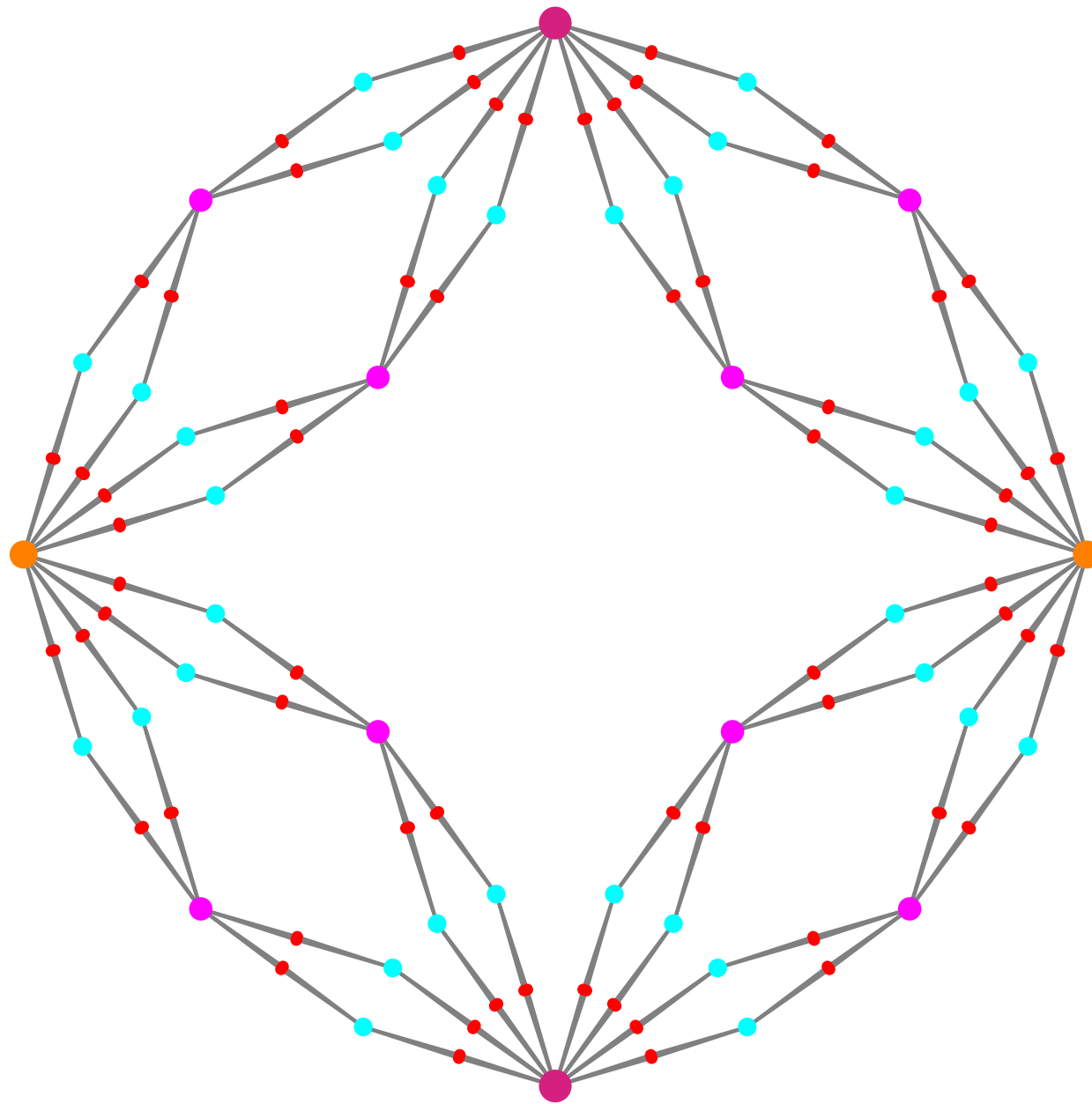


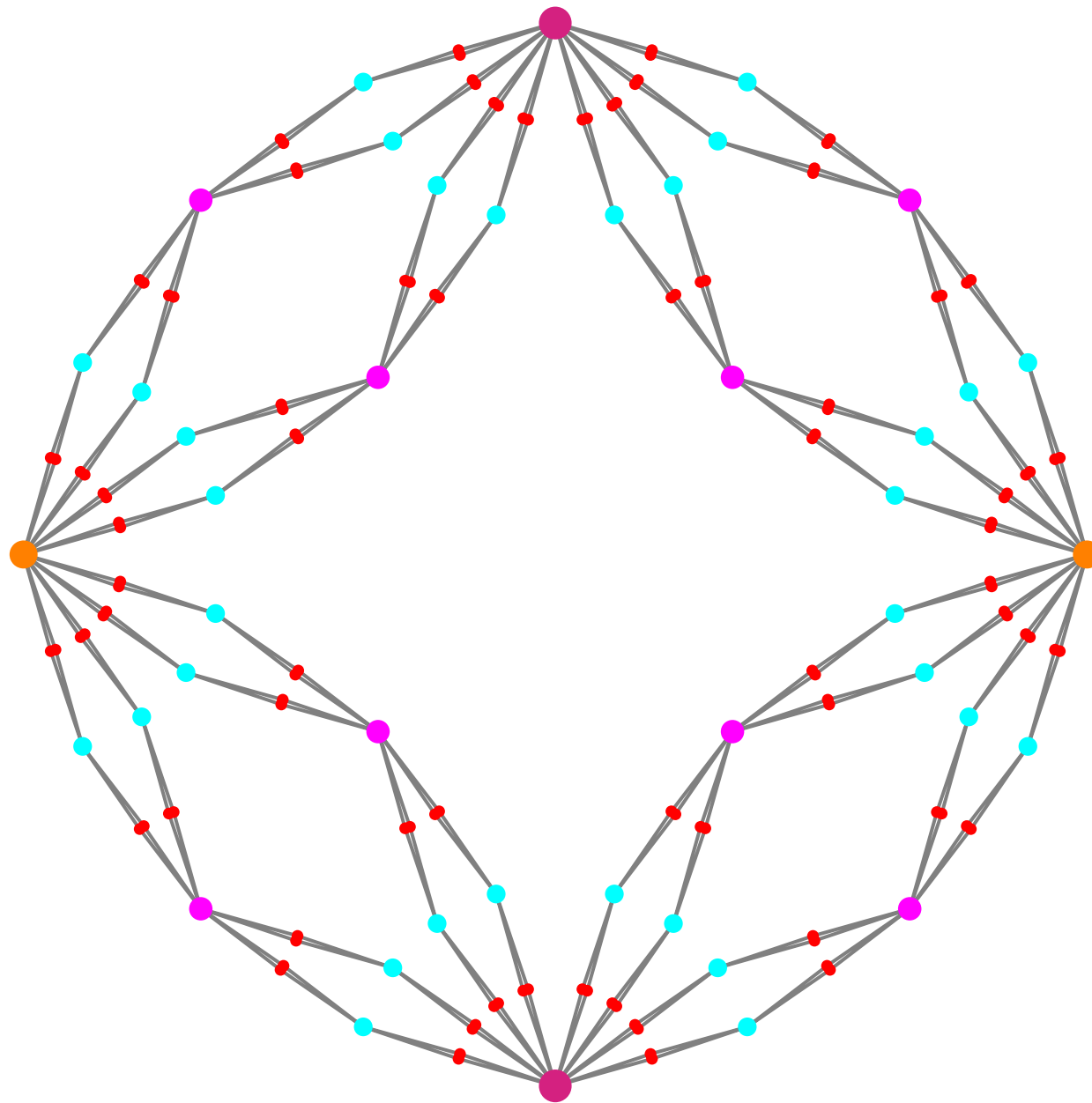


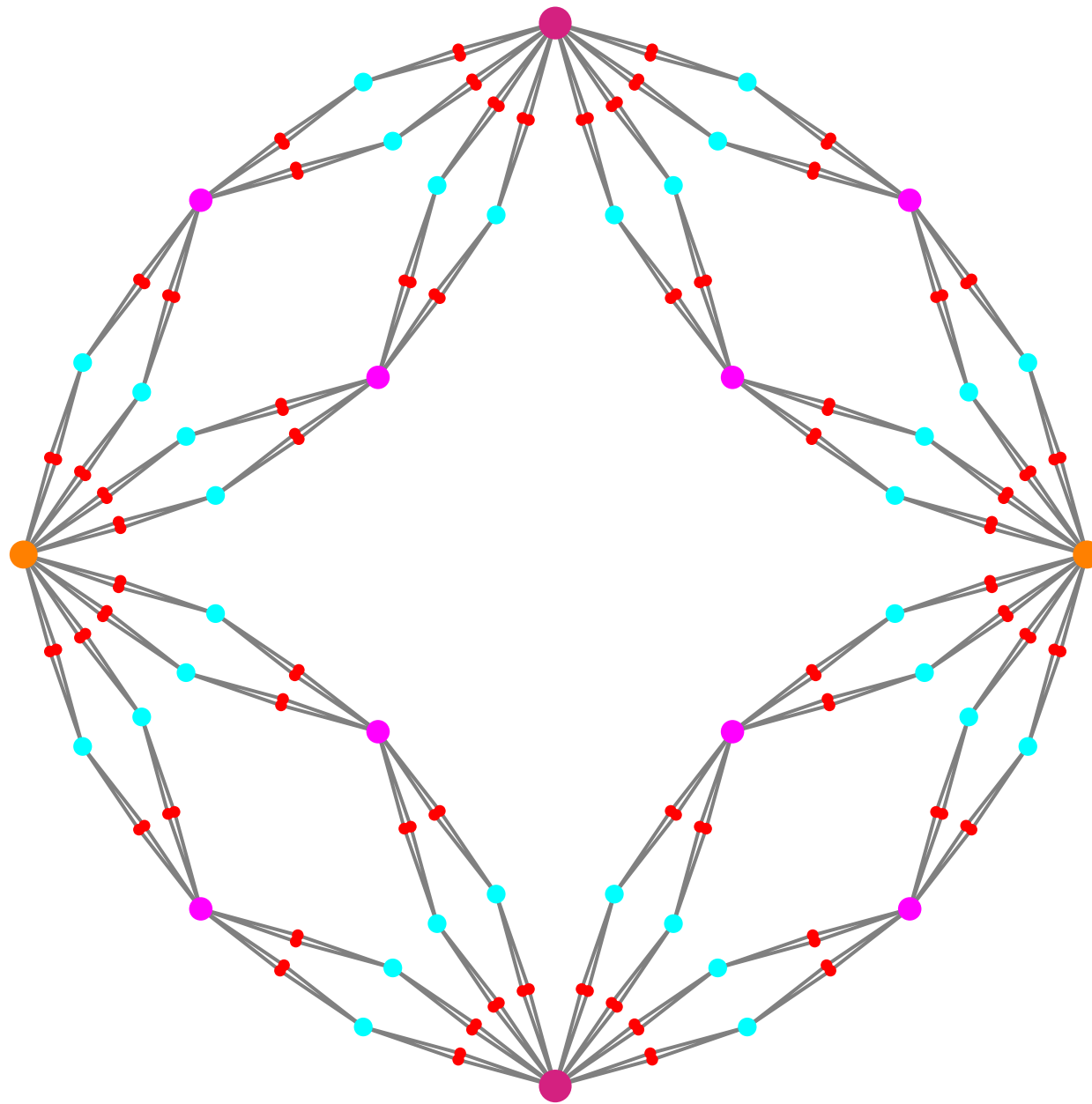


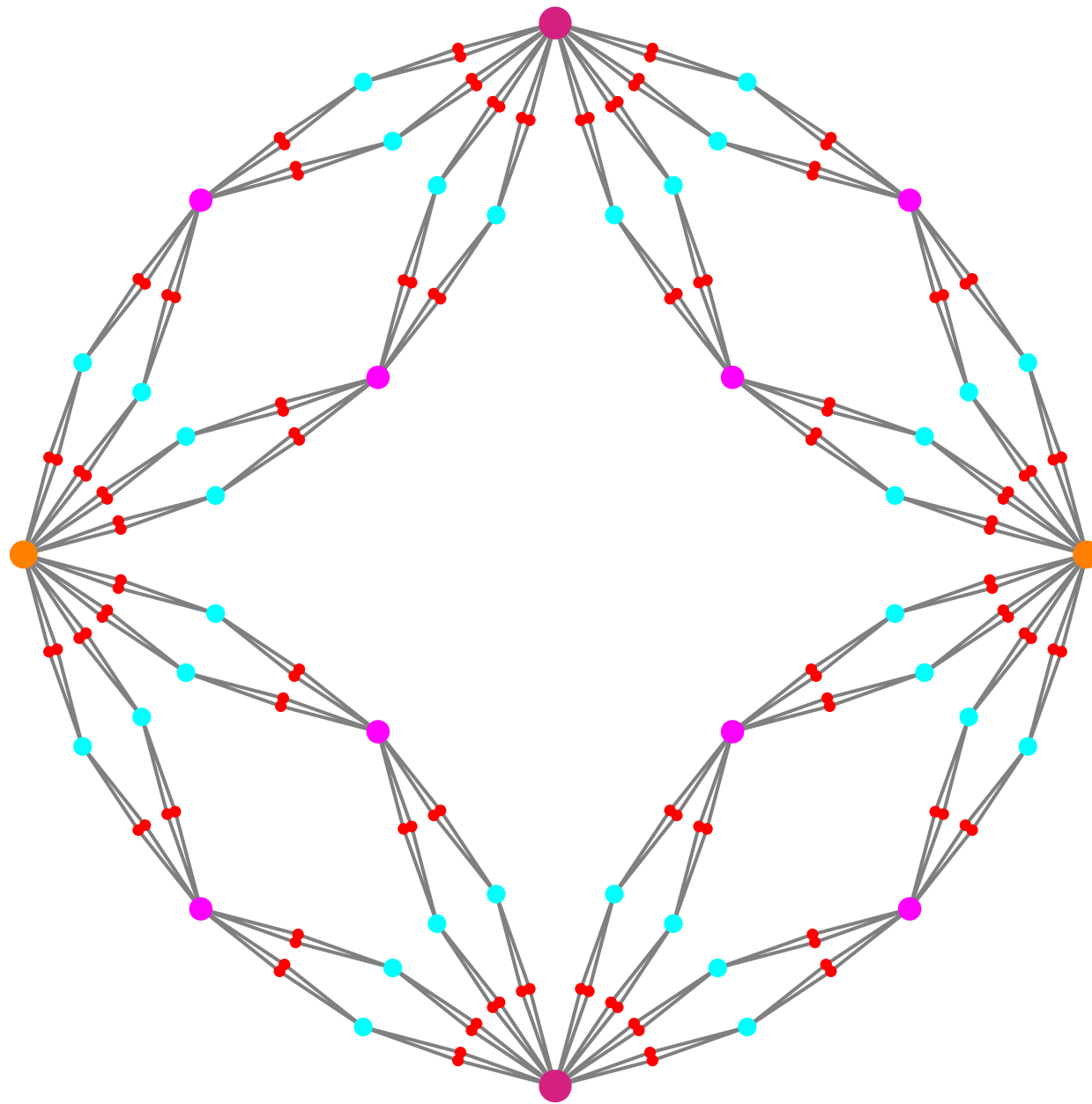


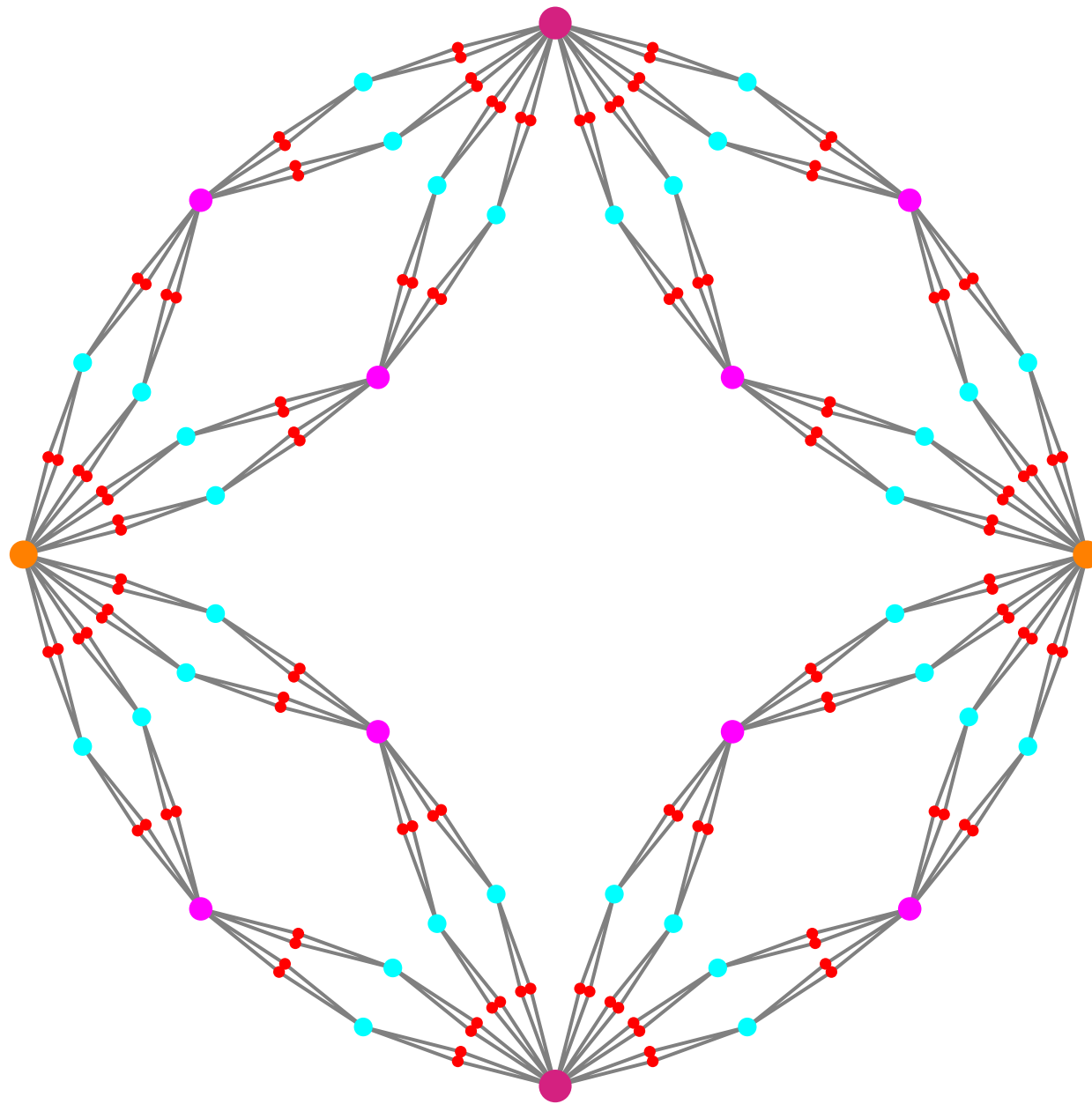


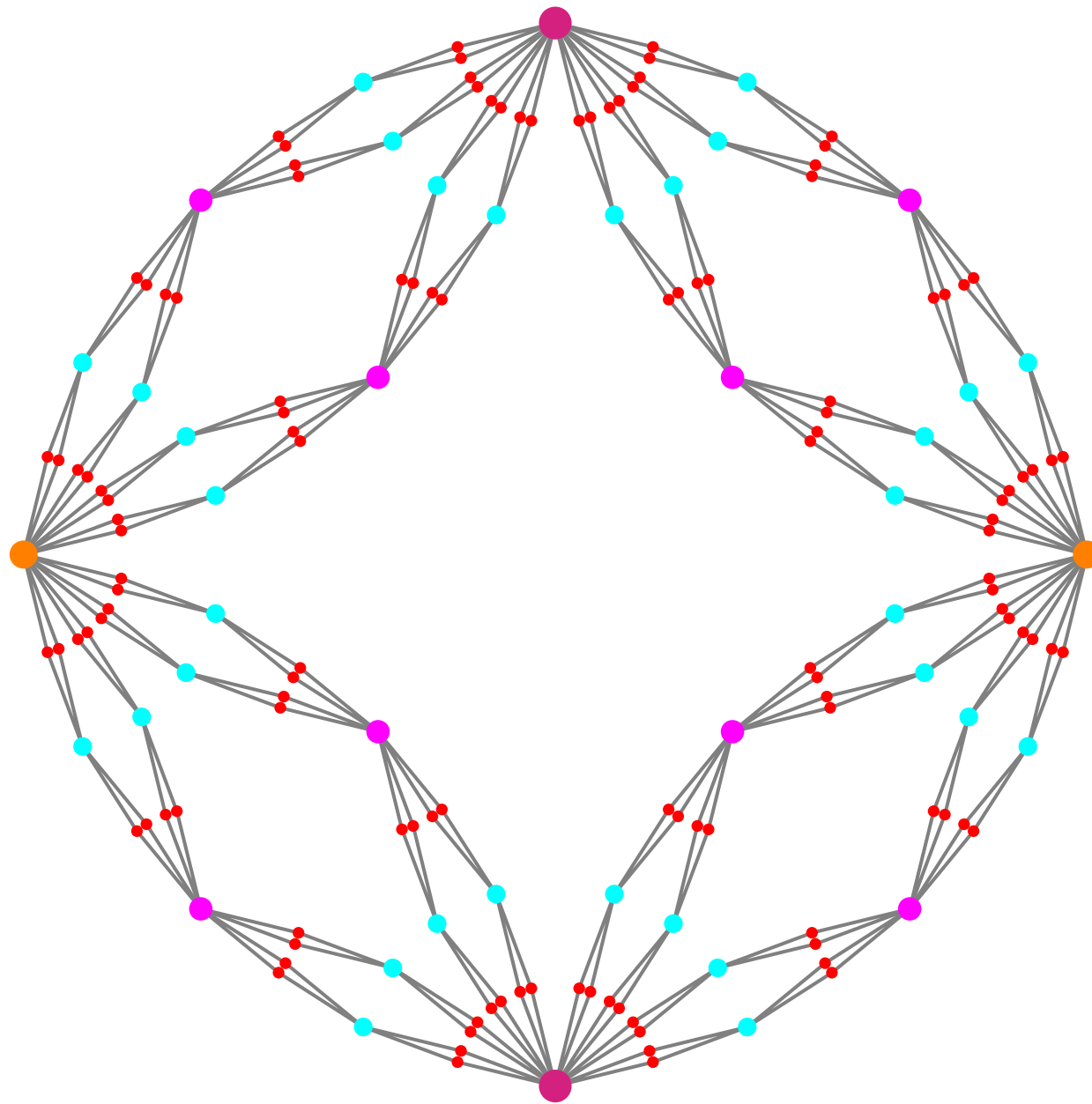


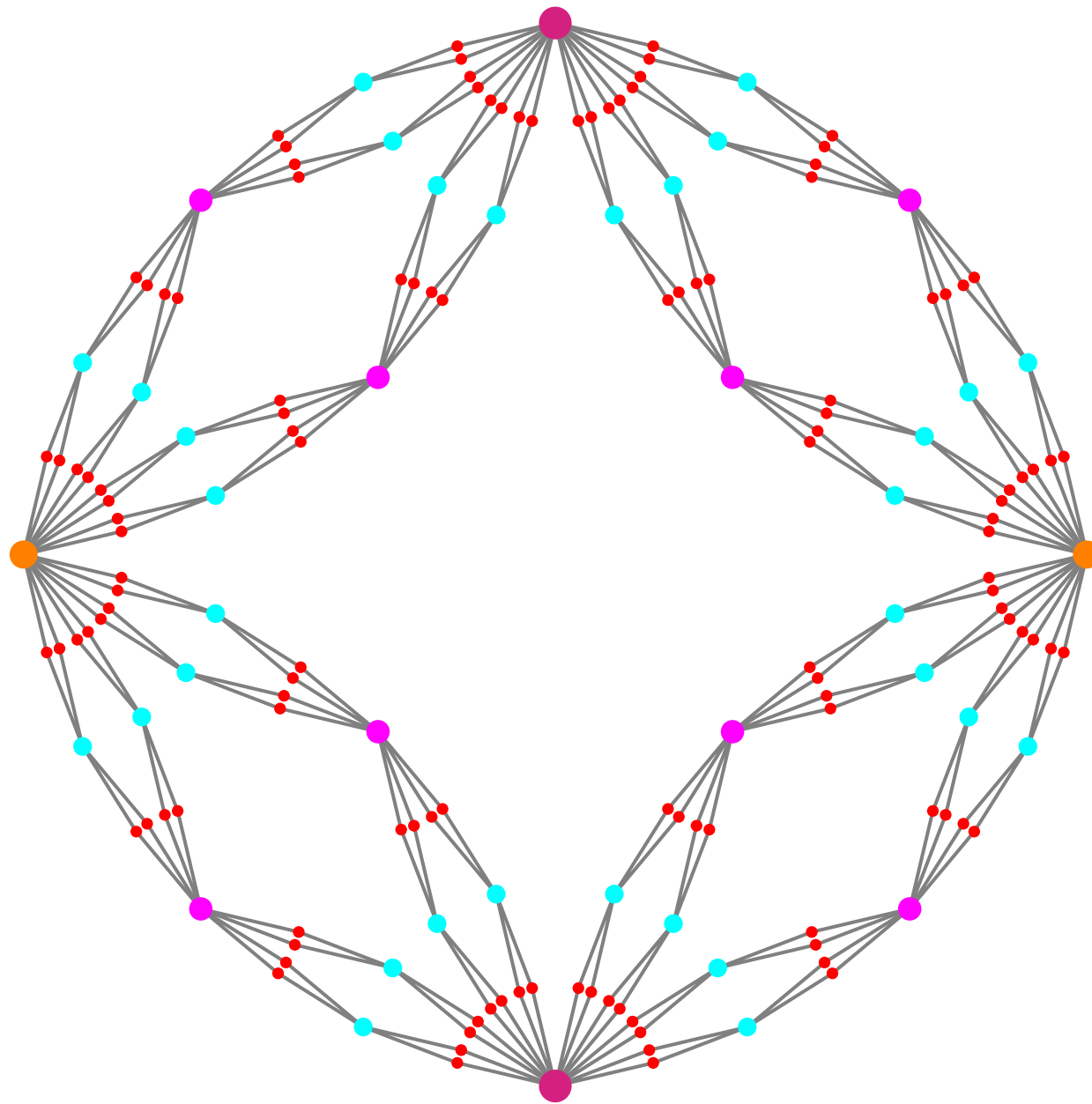


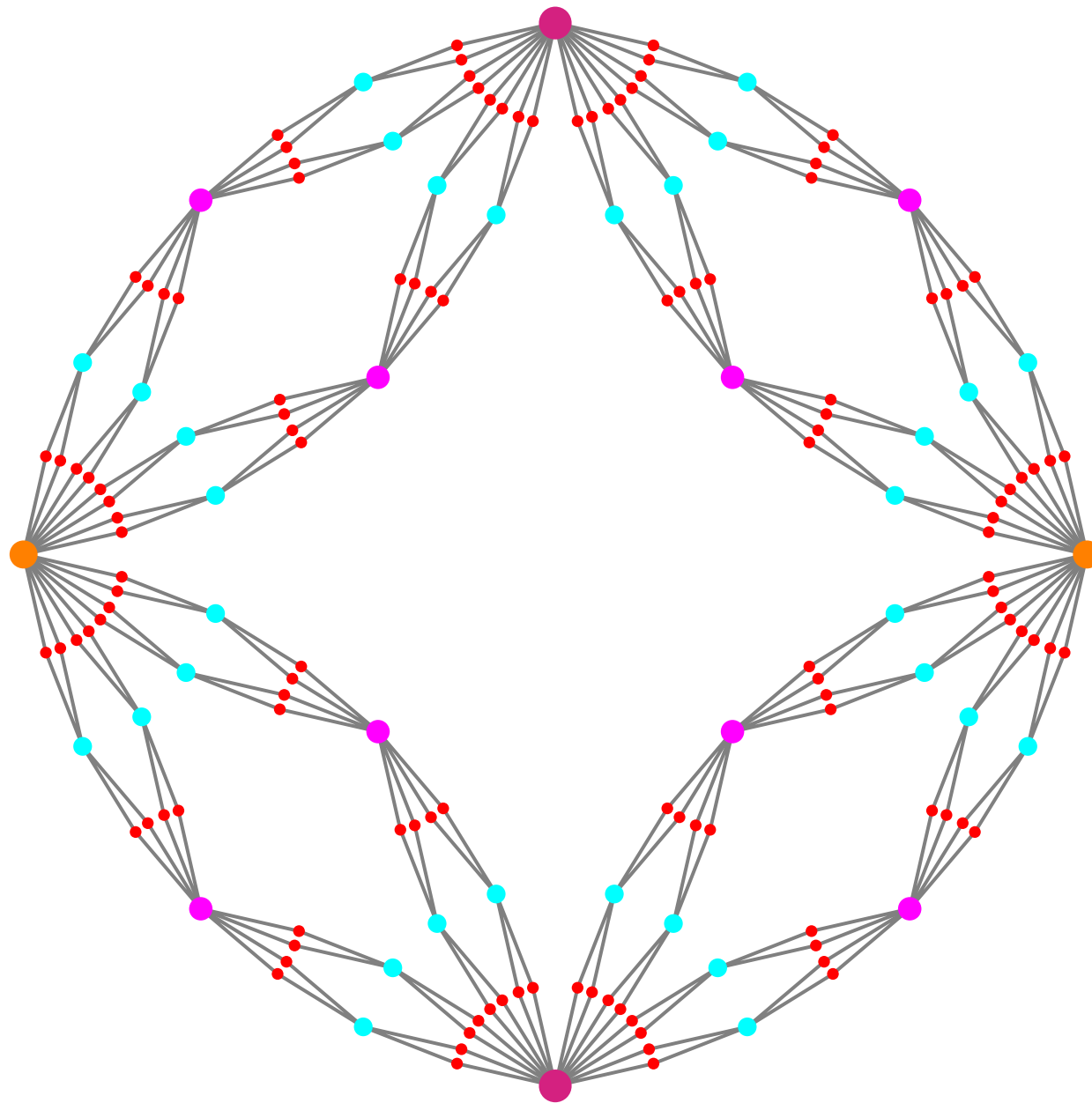


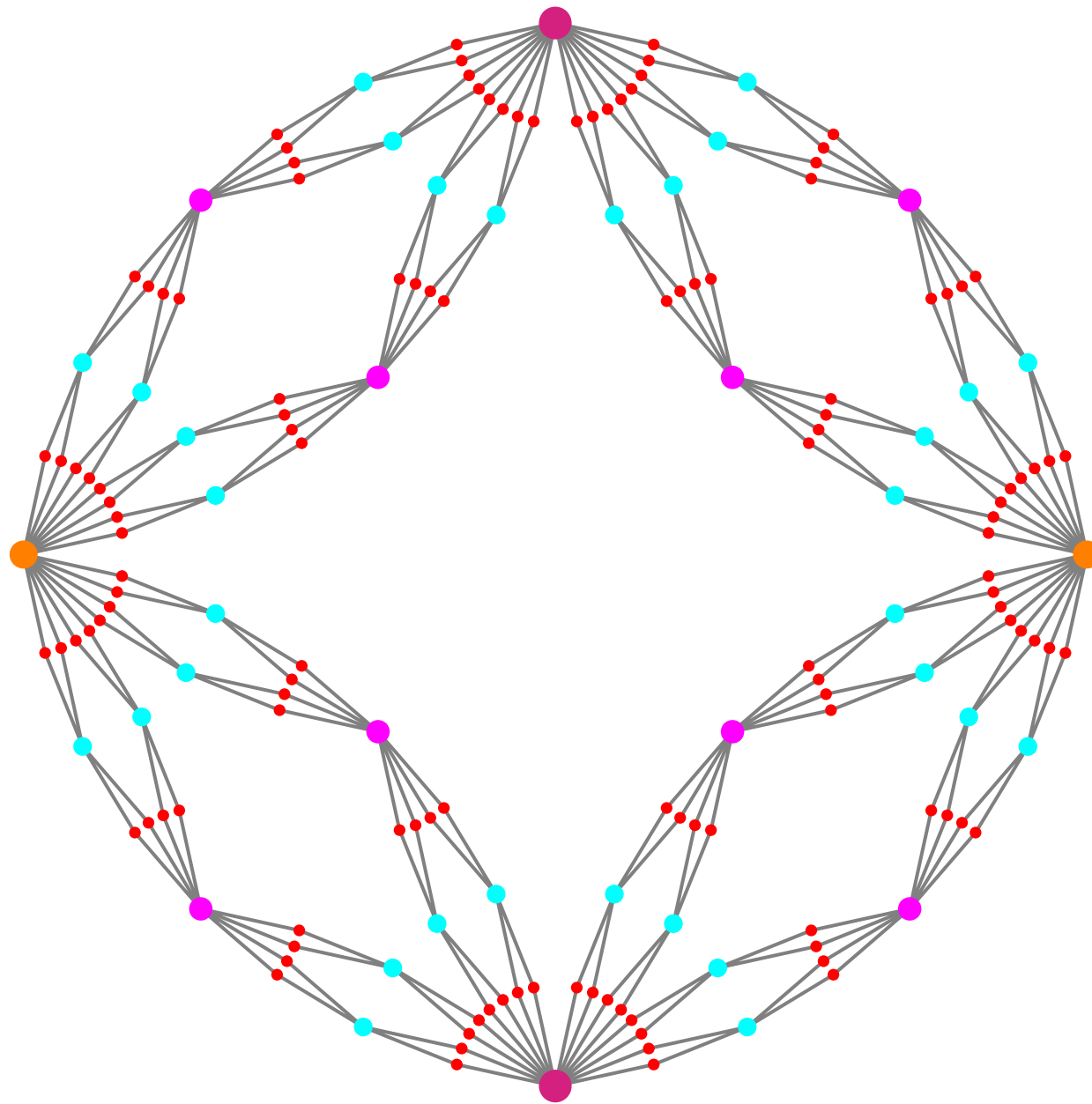


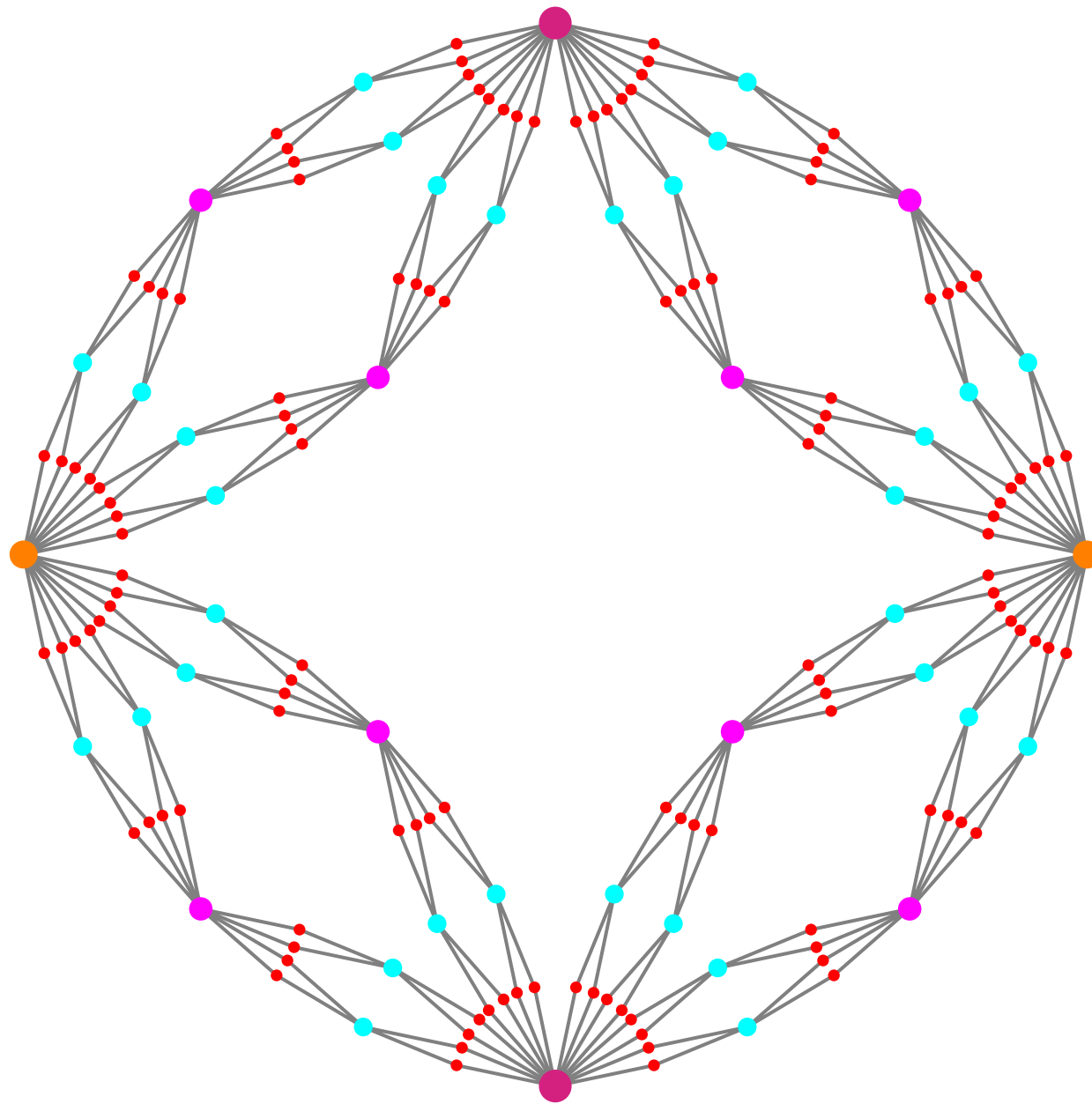


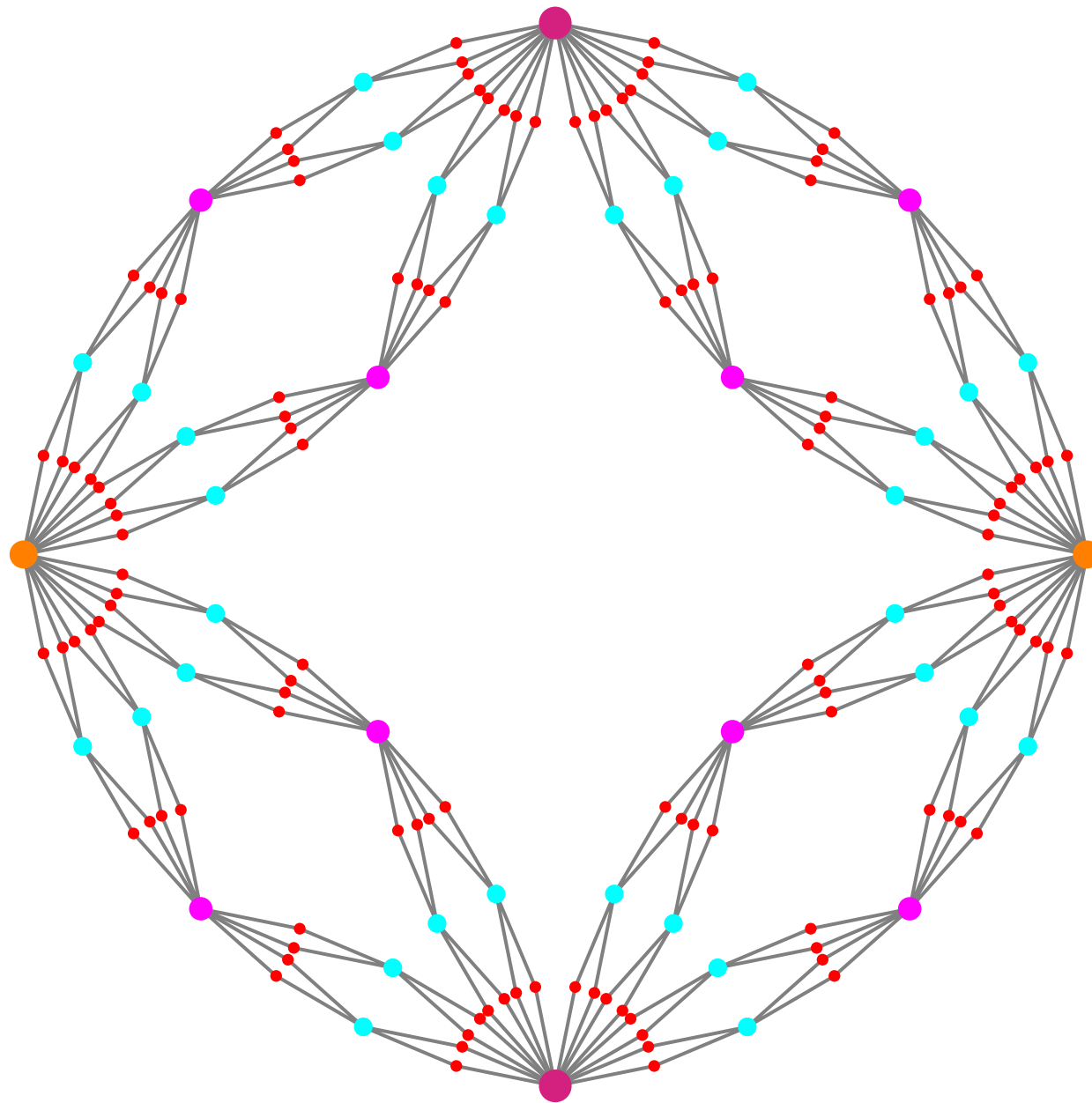


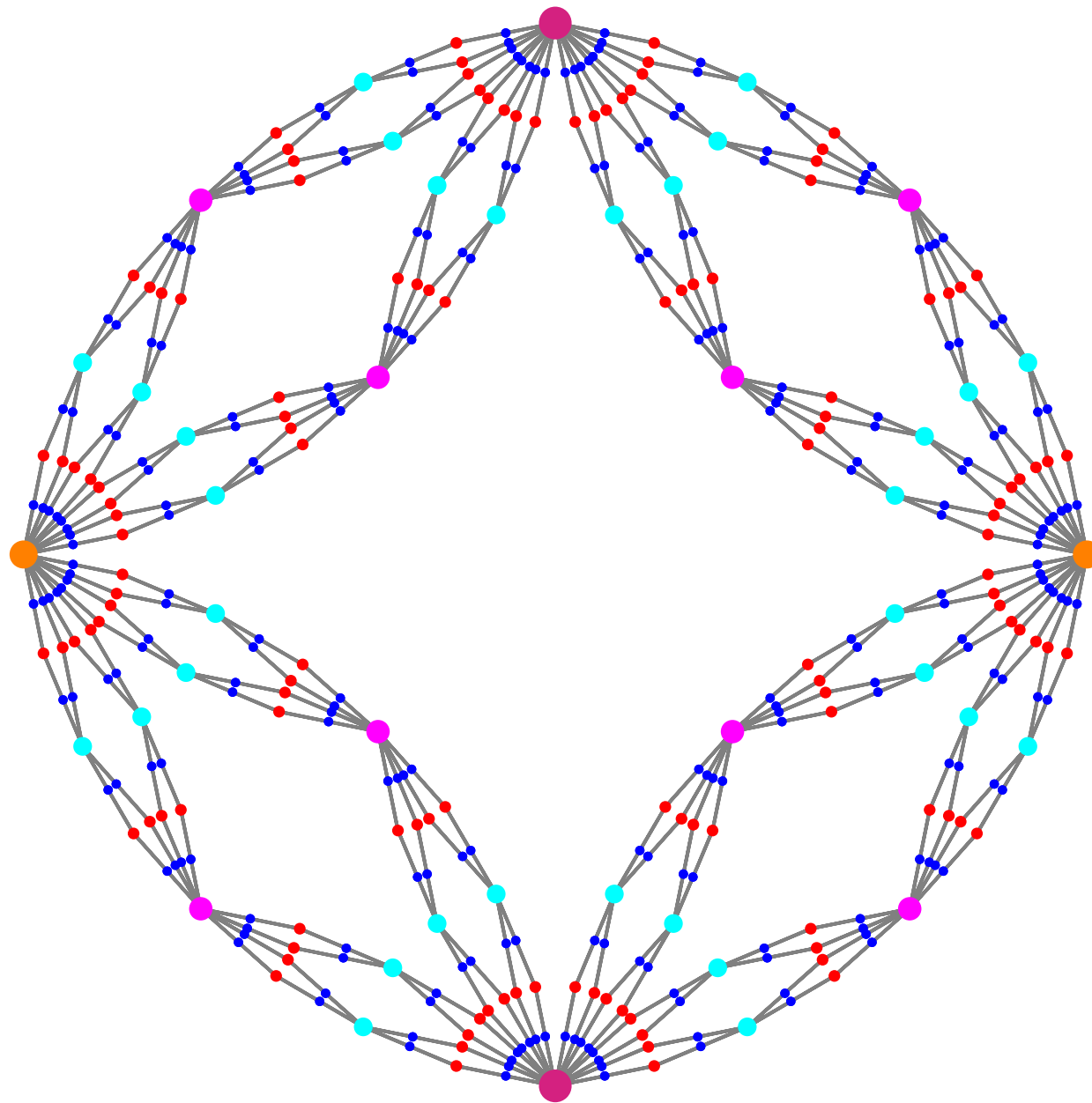


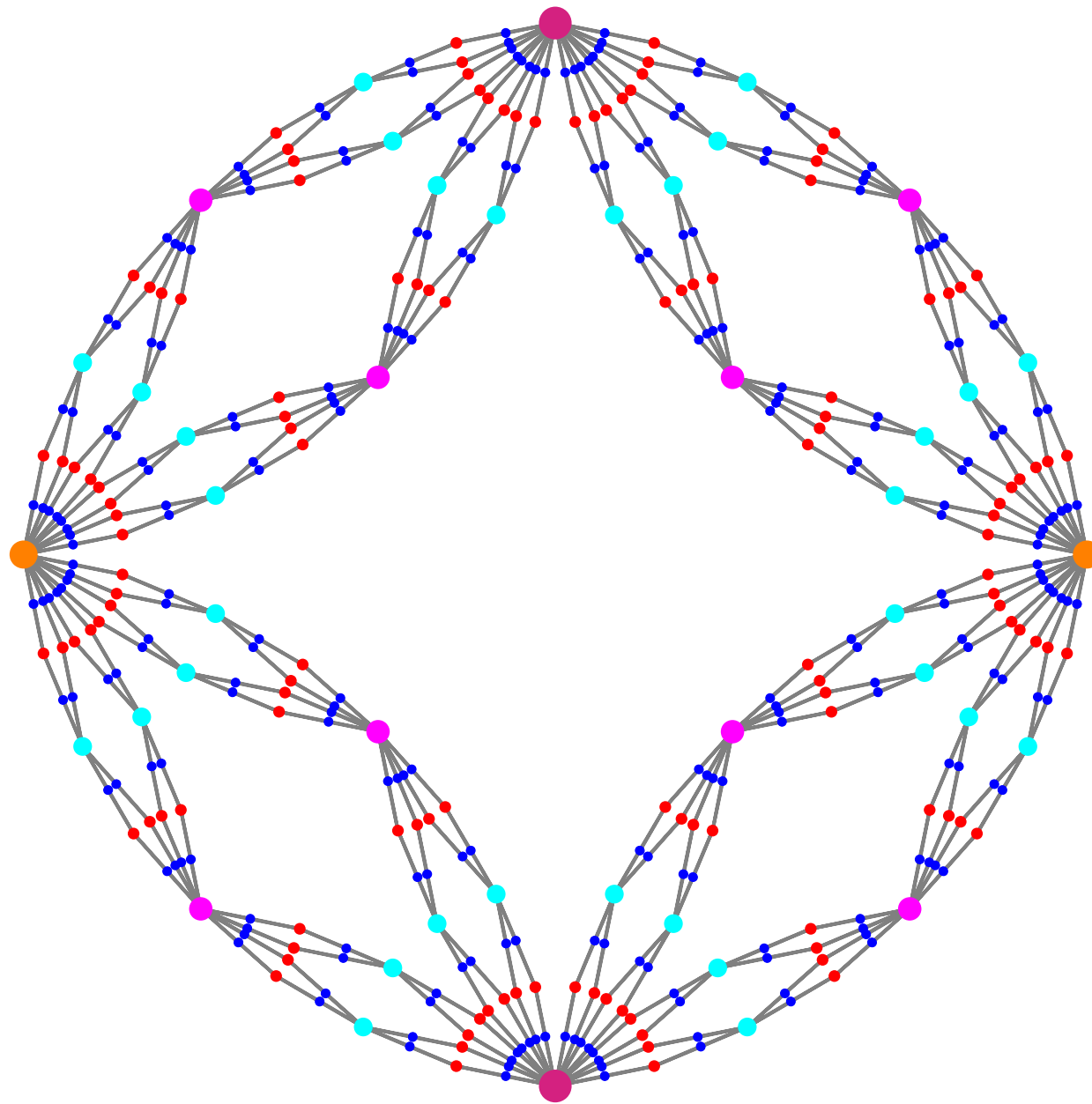


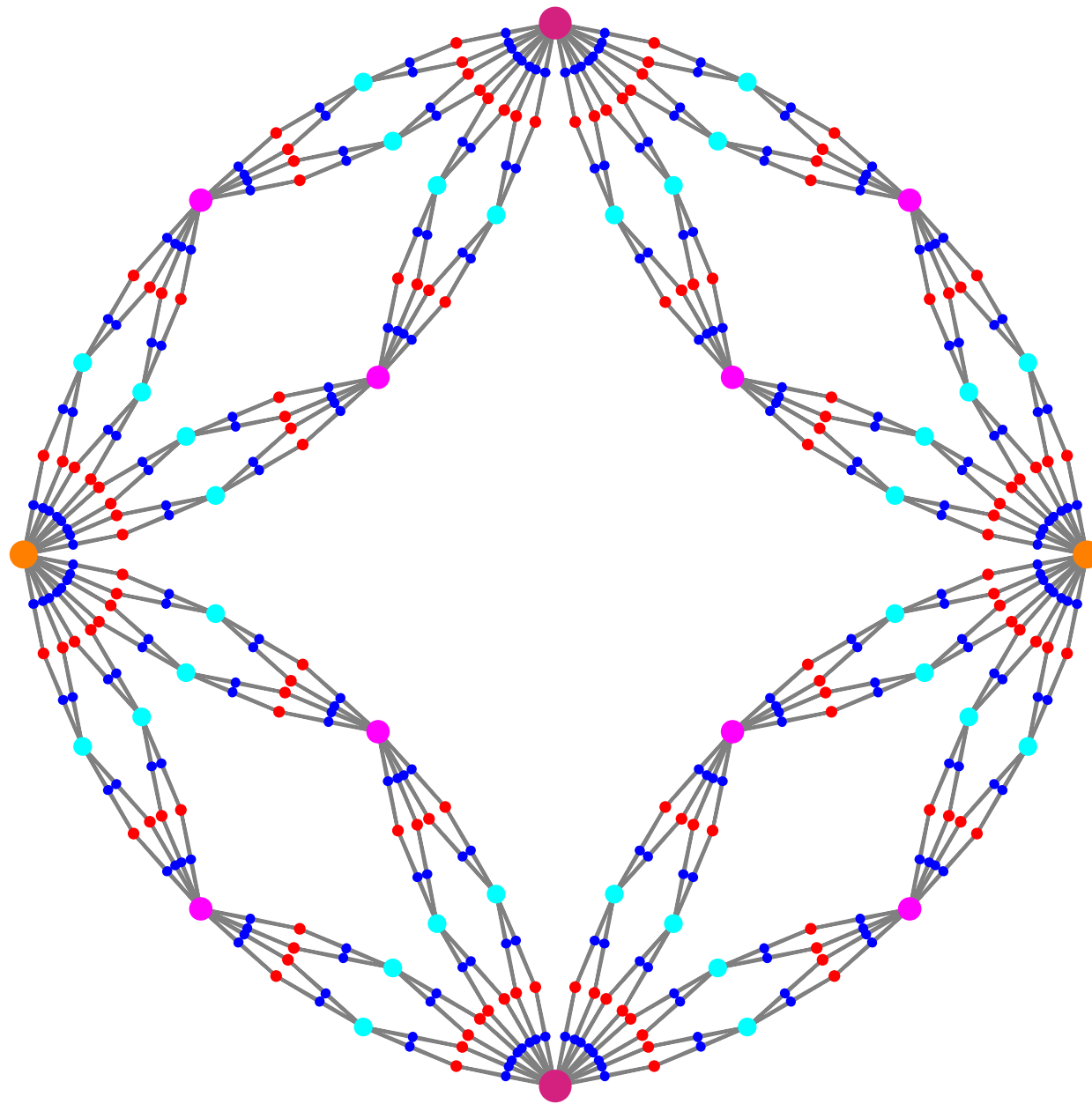


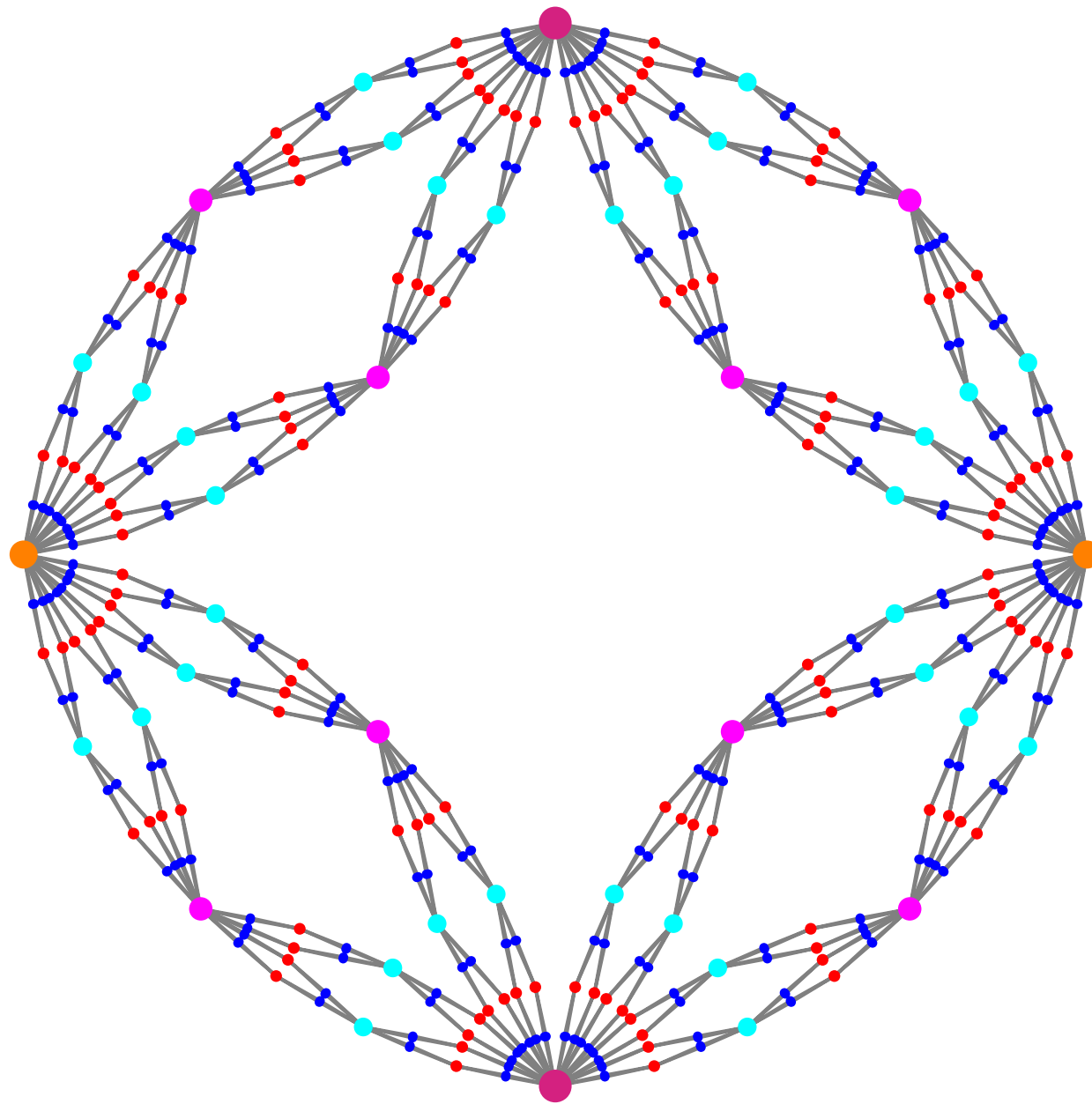


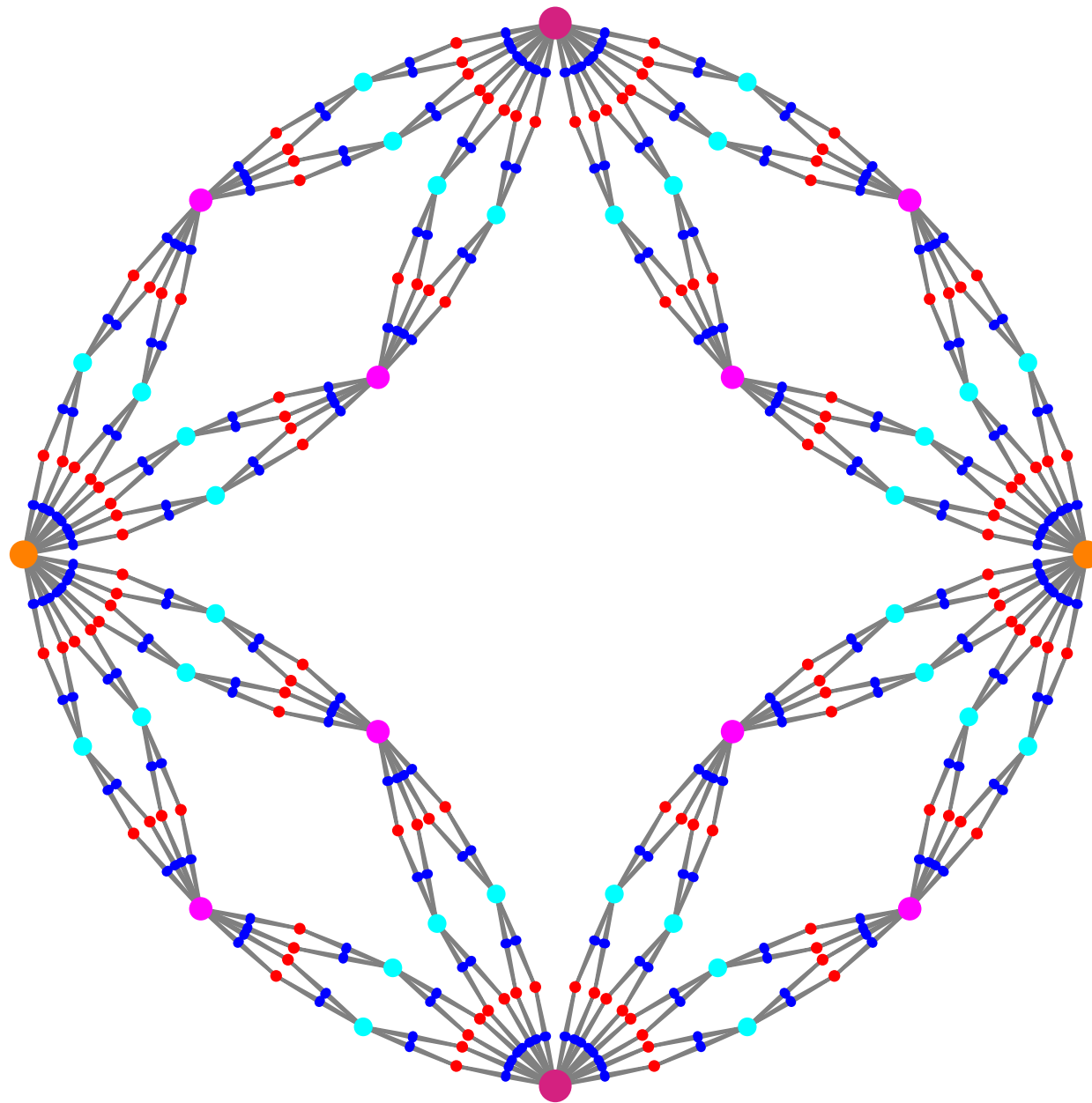


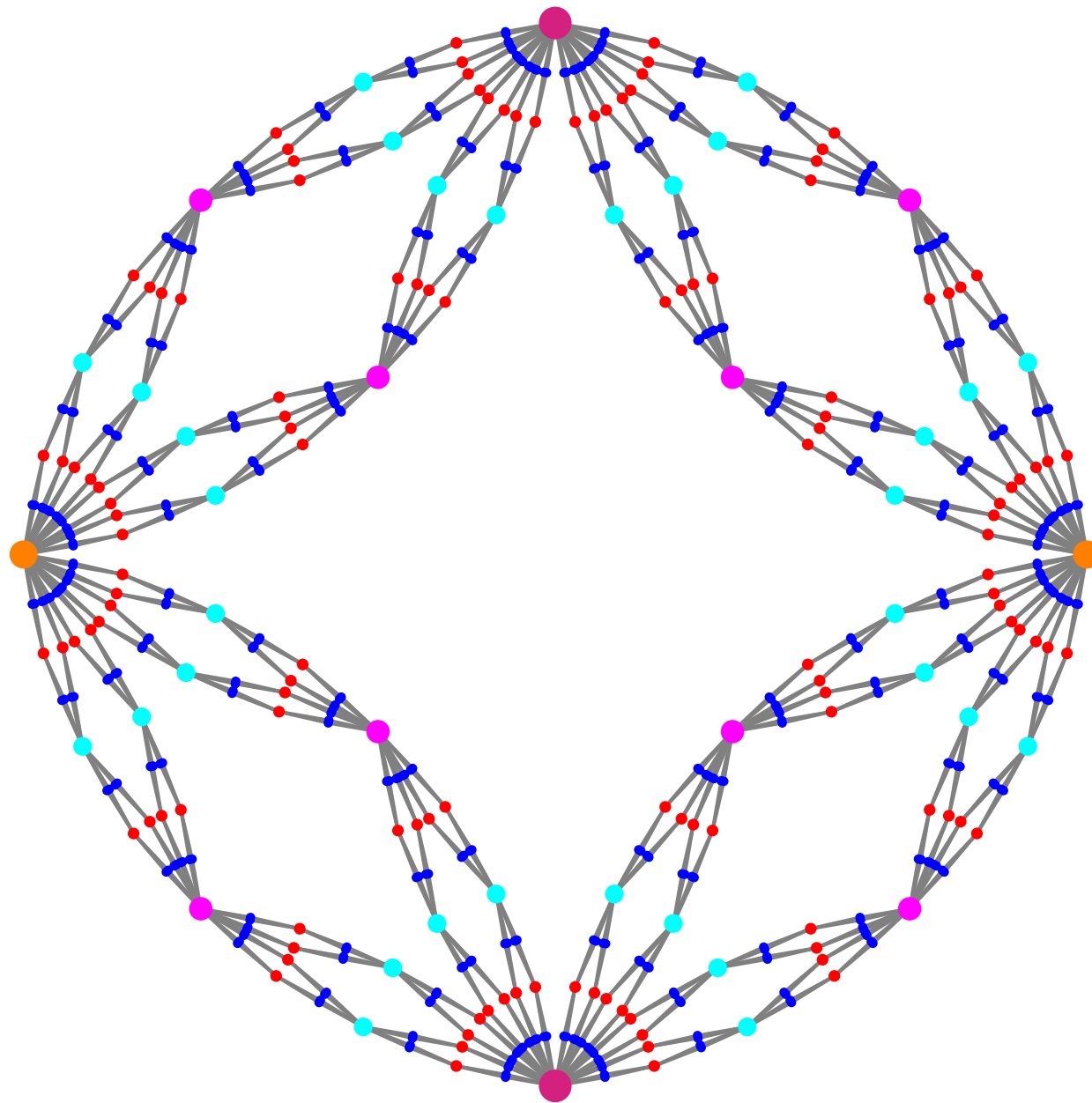


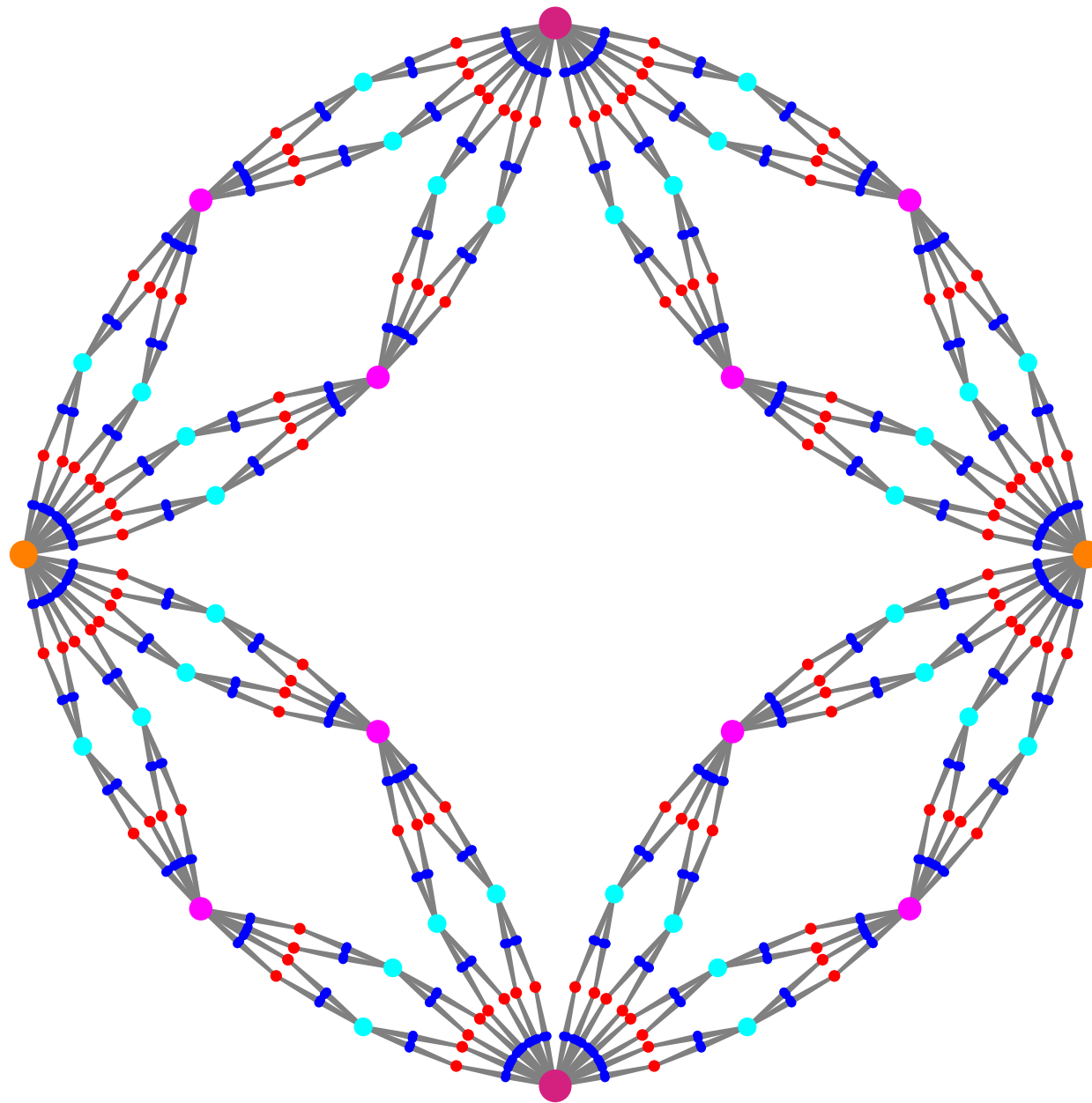


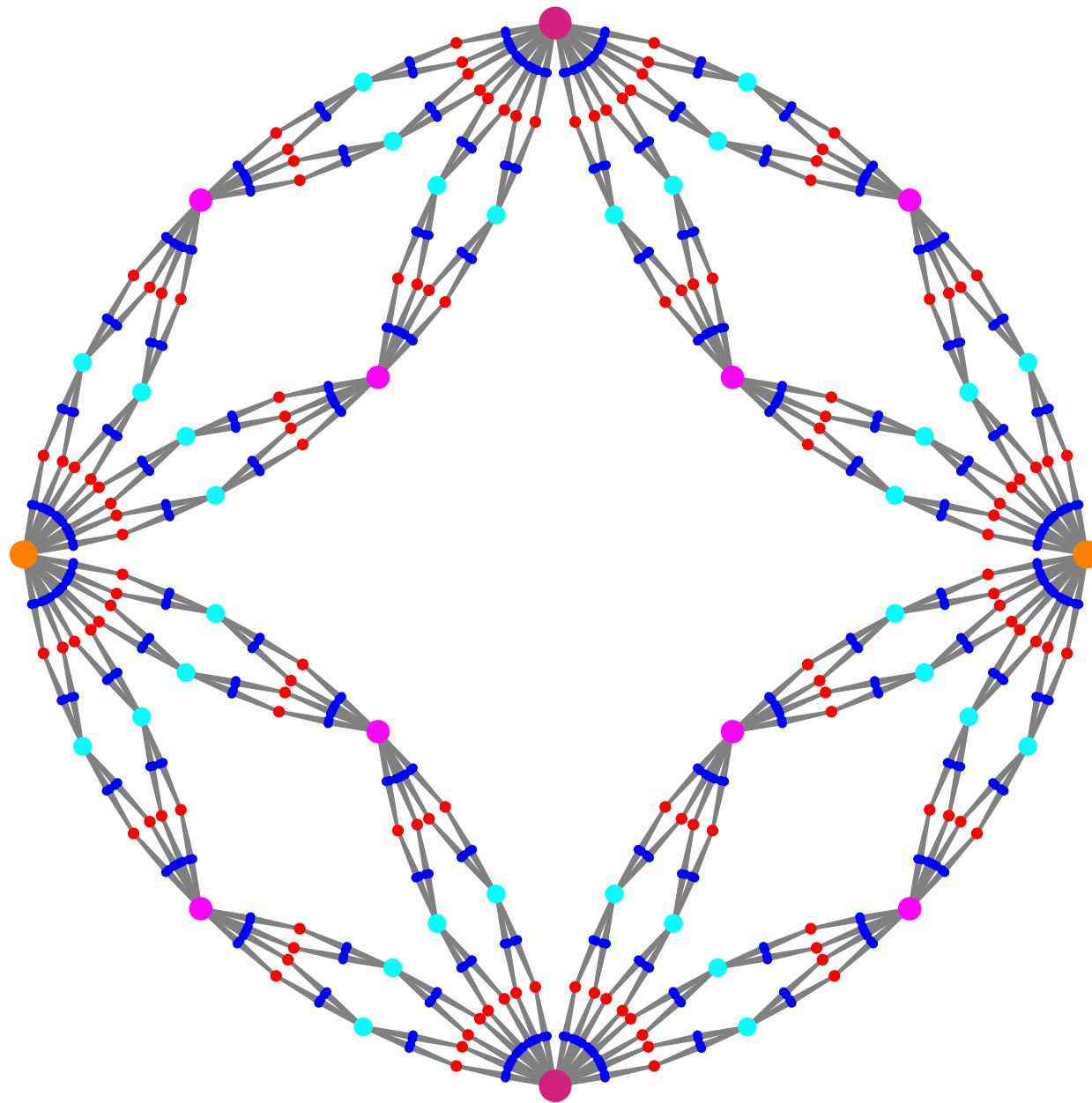


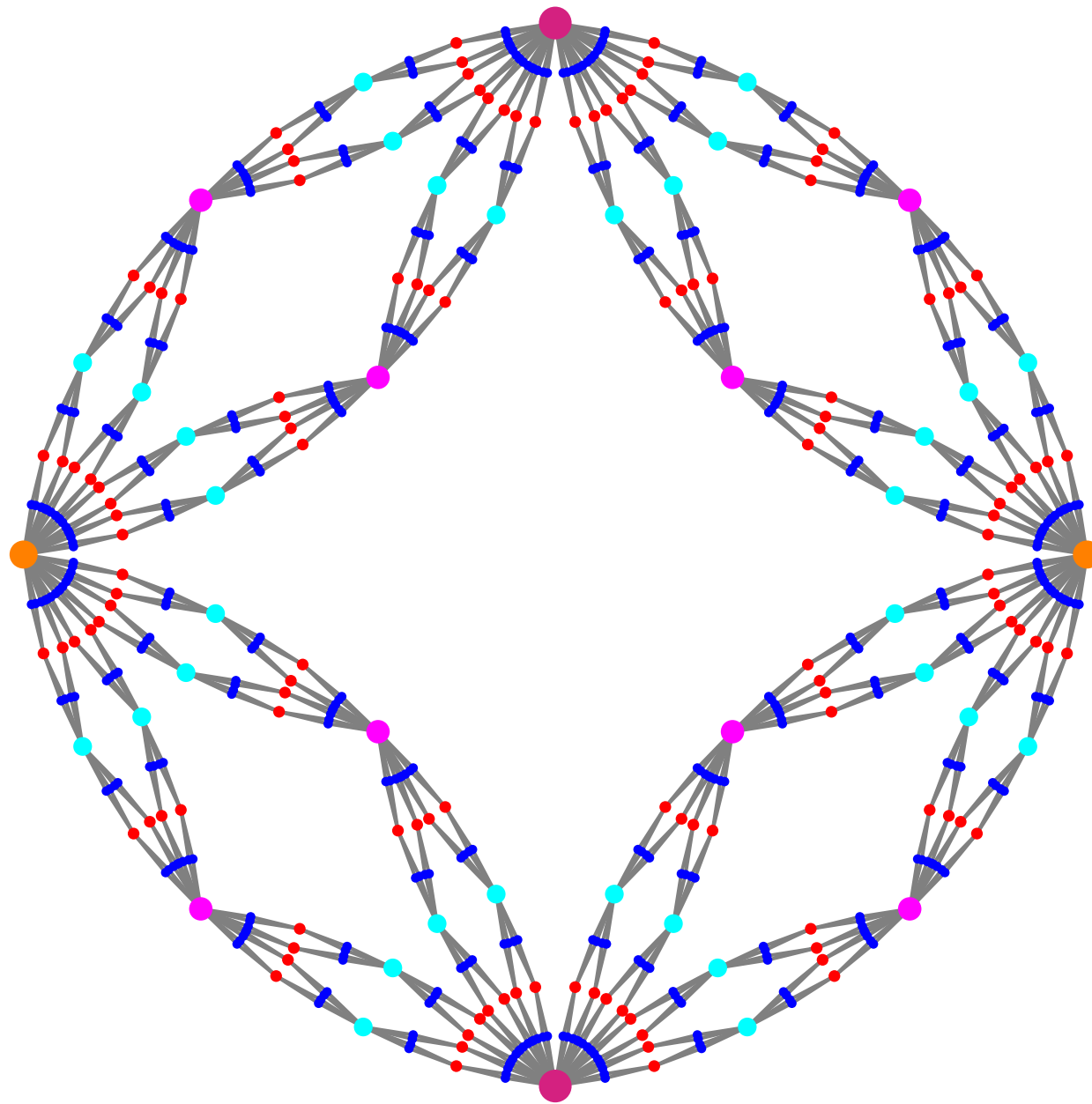


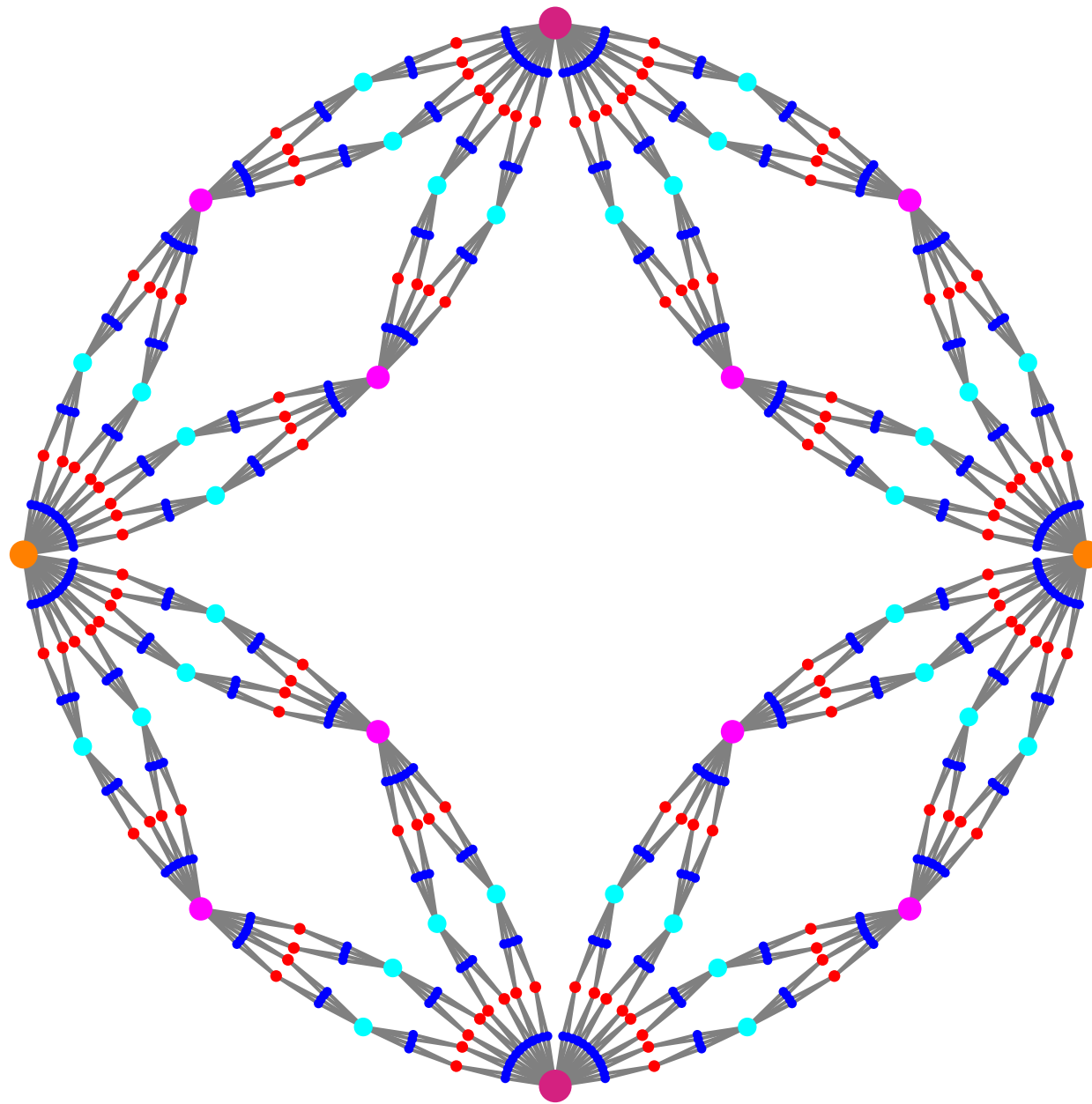


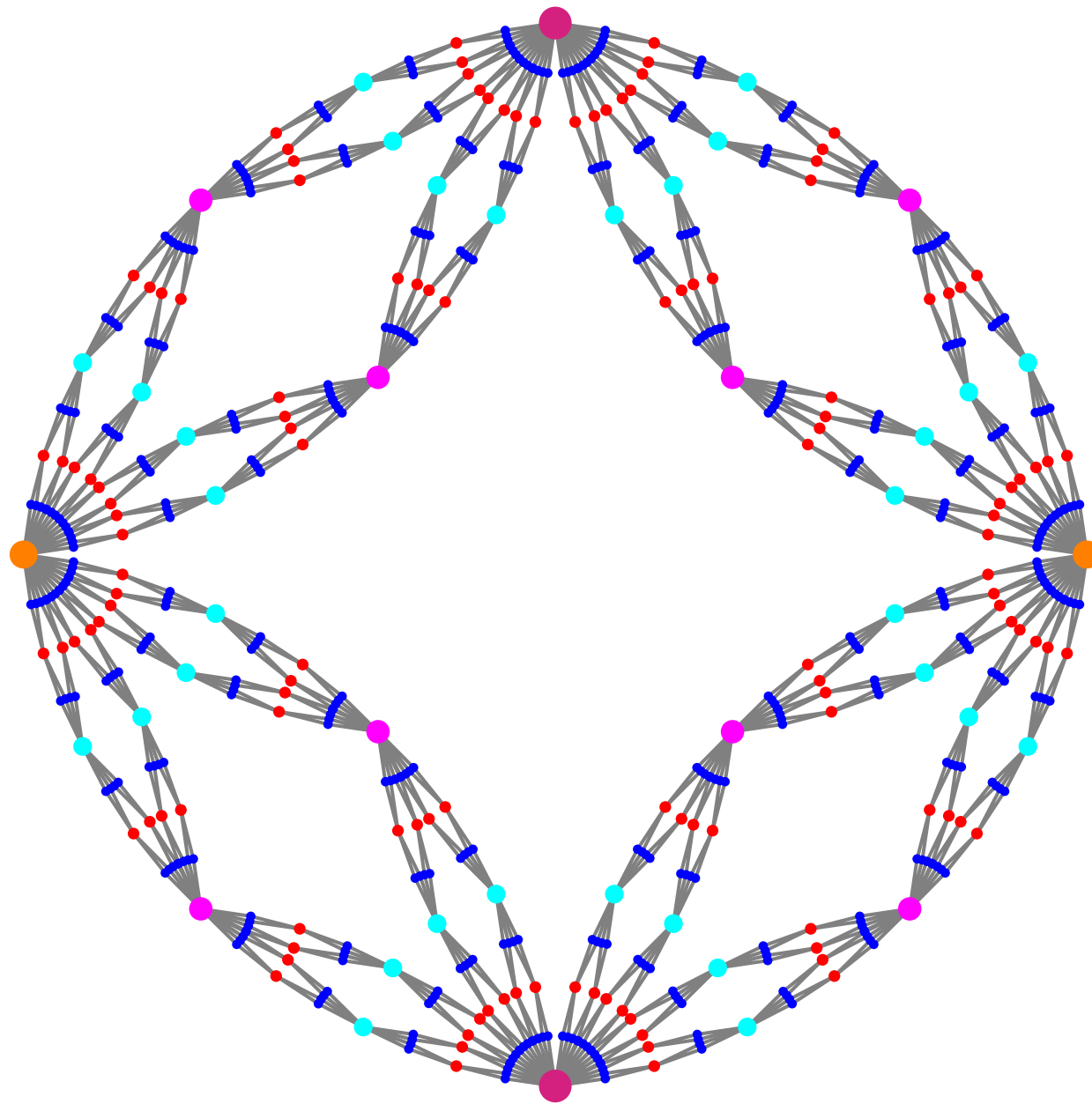


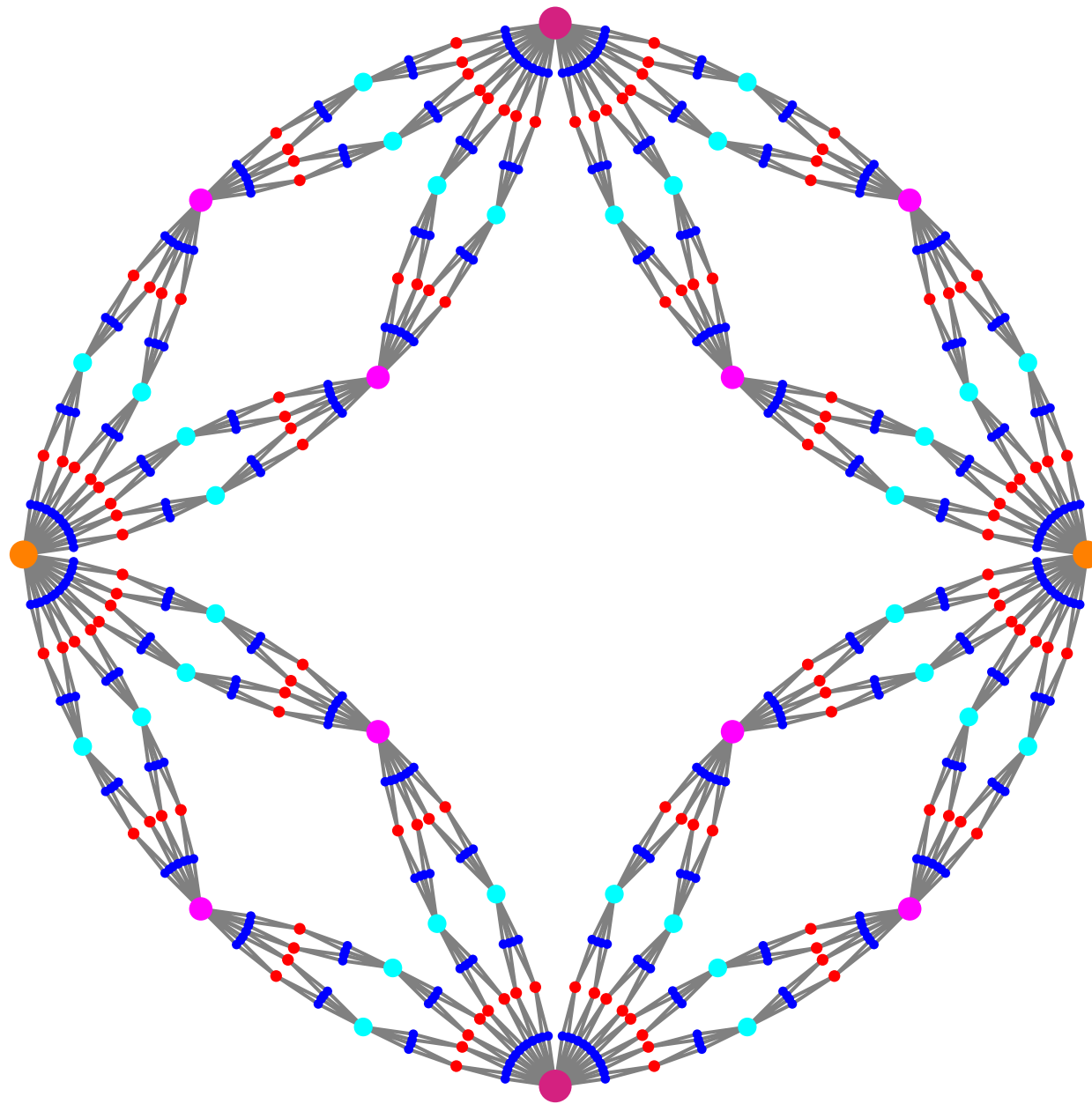


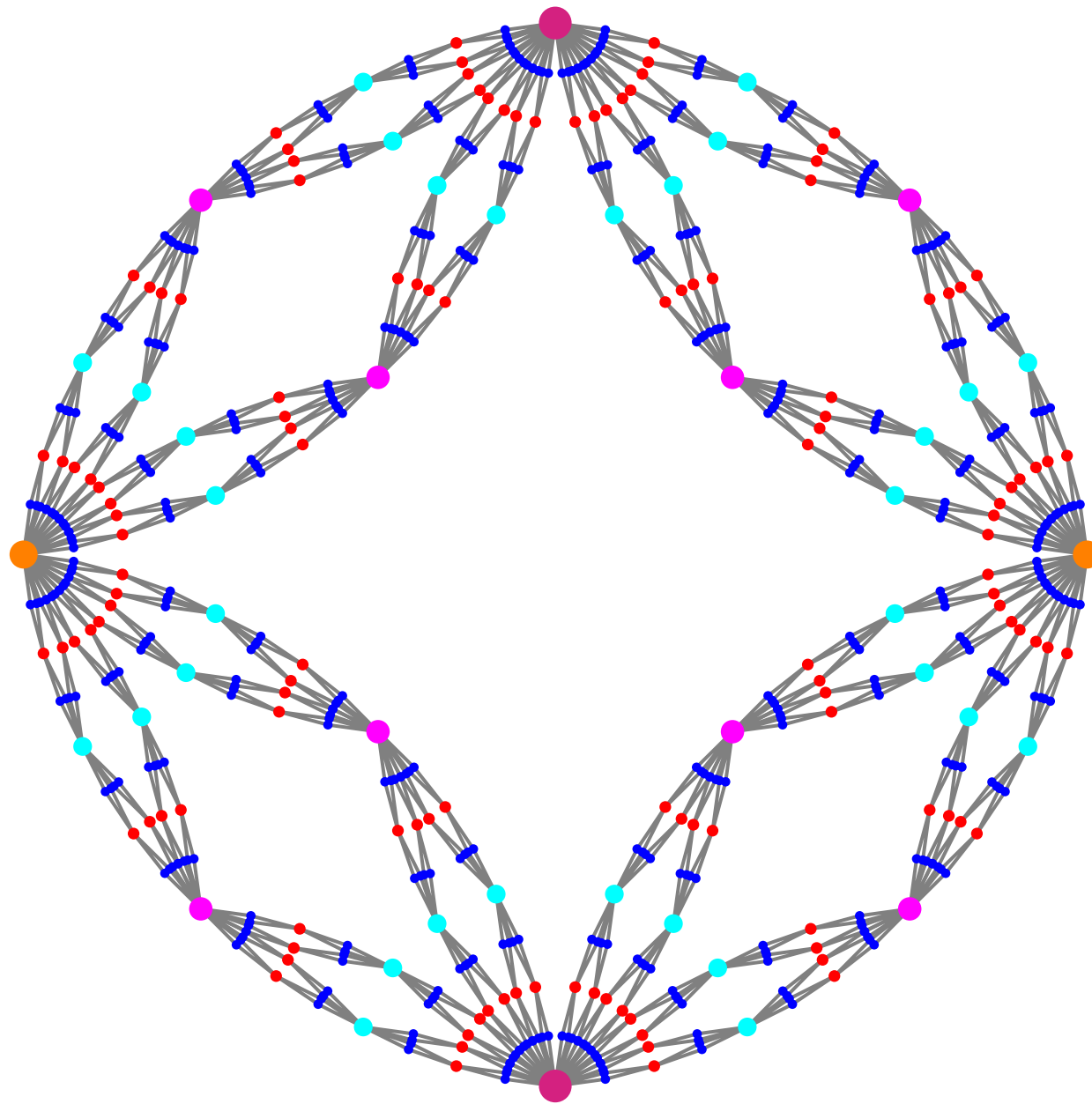


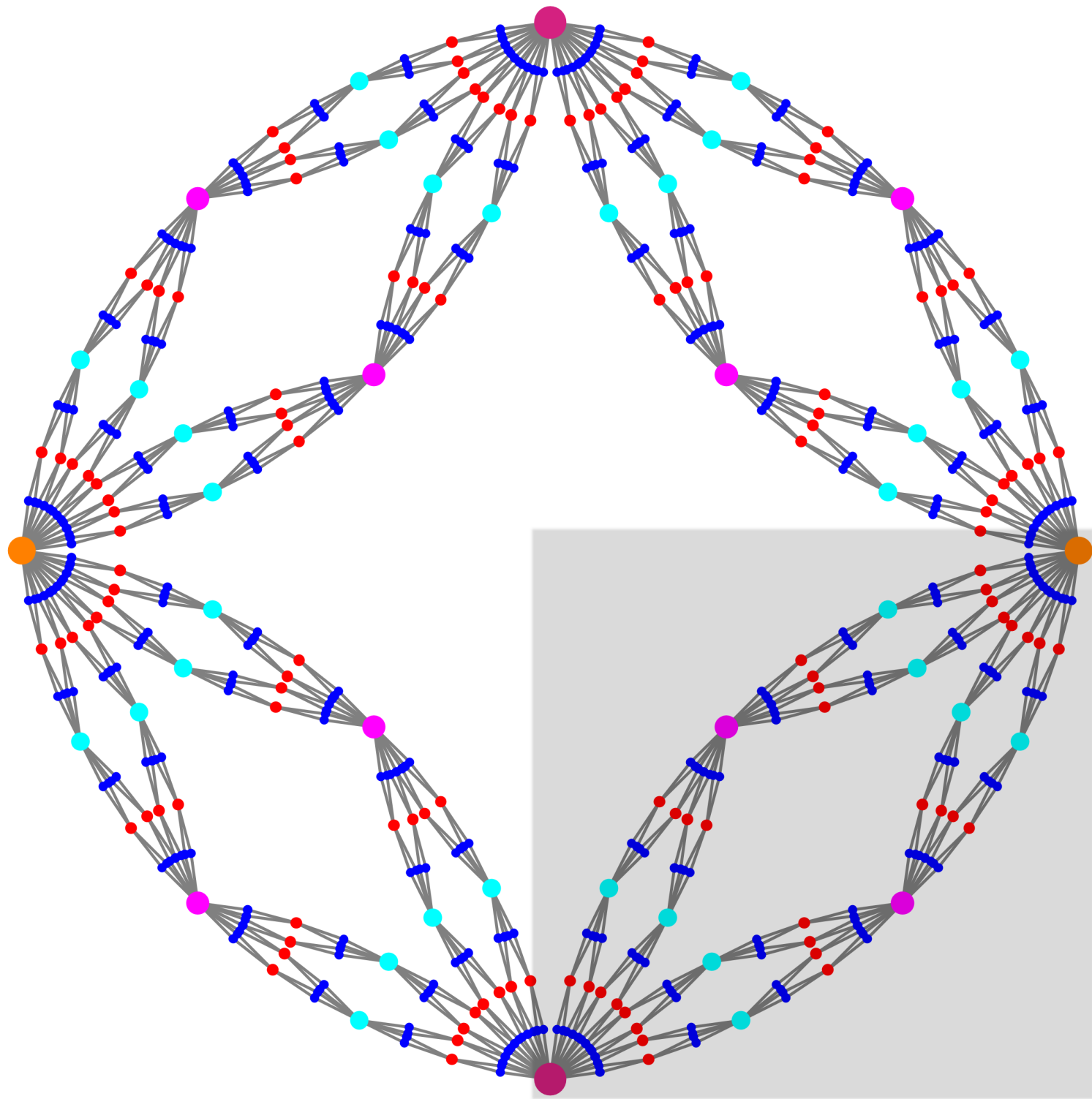


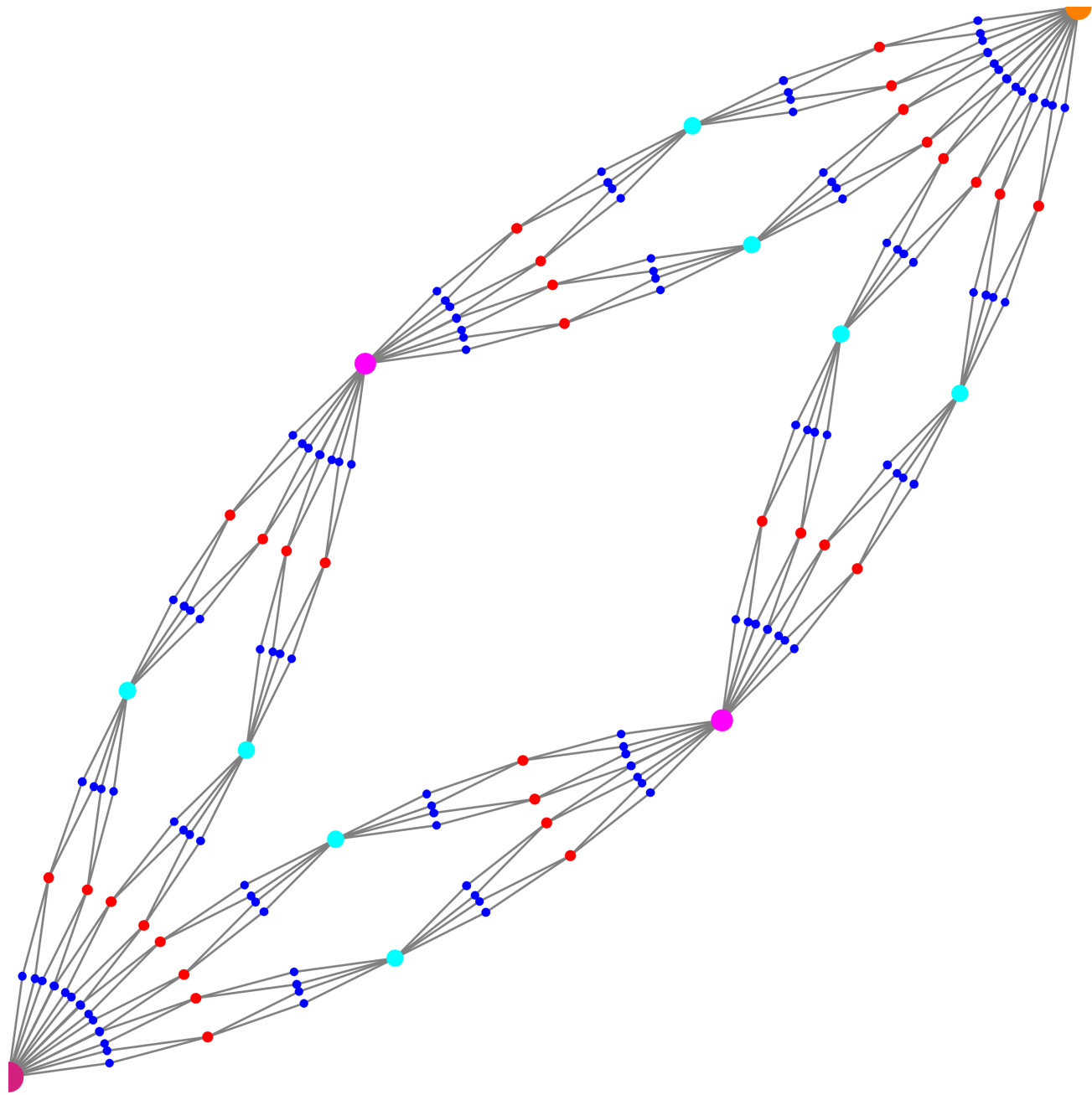






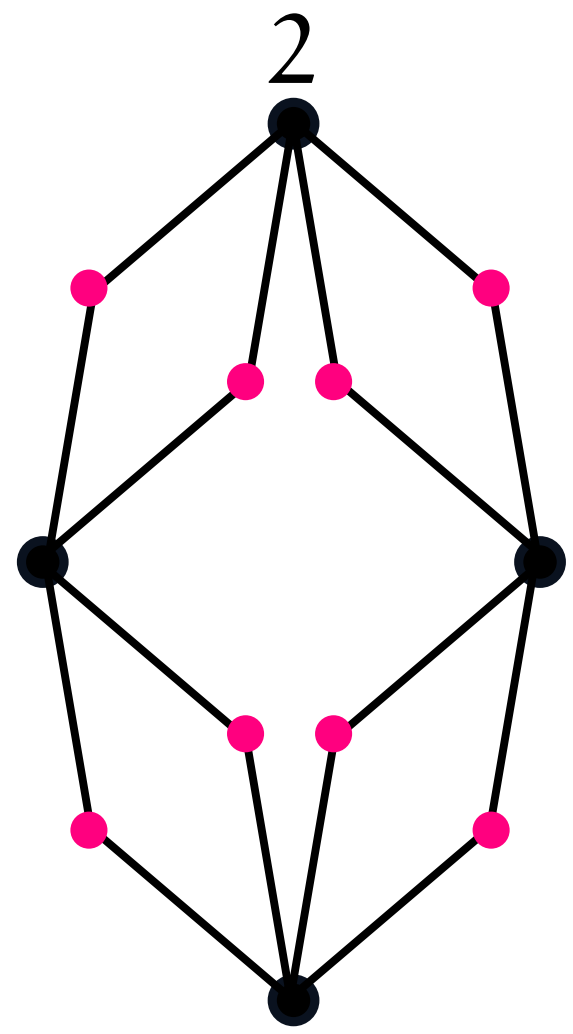
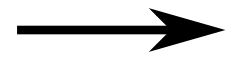
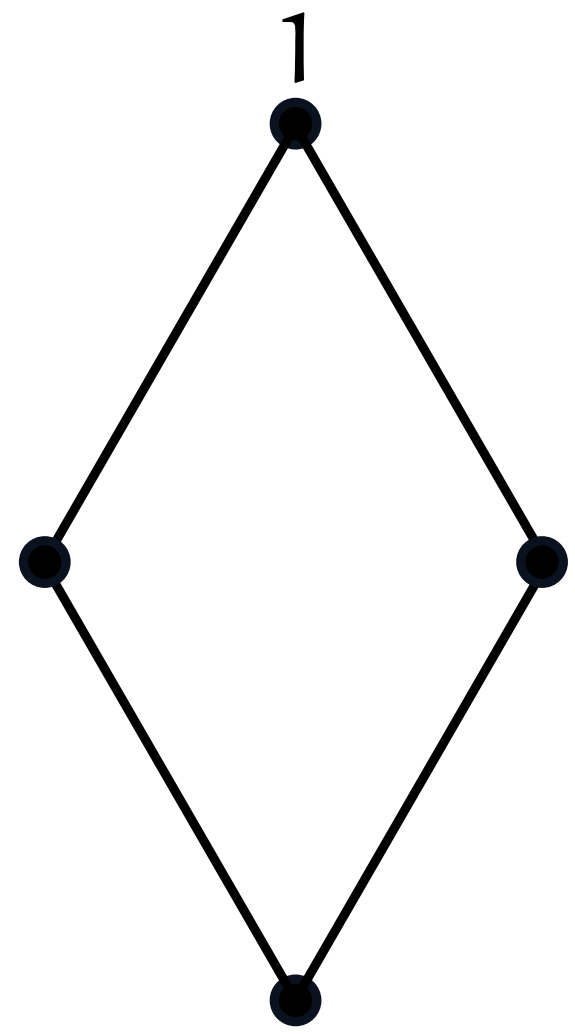
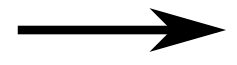






magnificación

$n = 0$



espines = 2

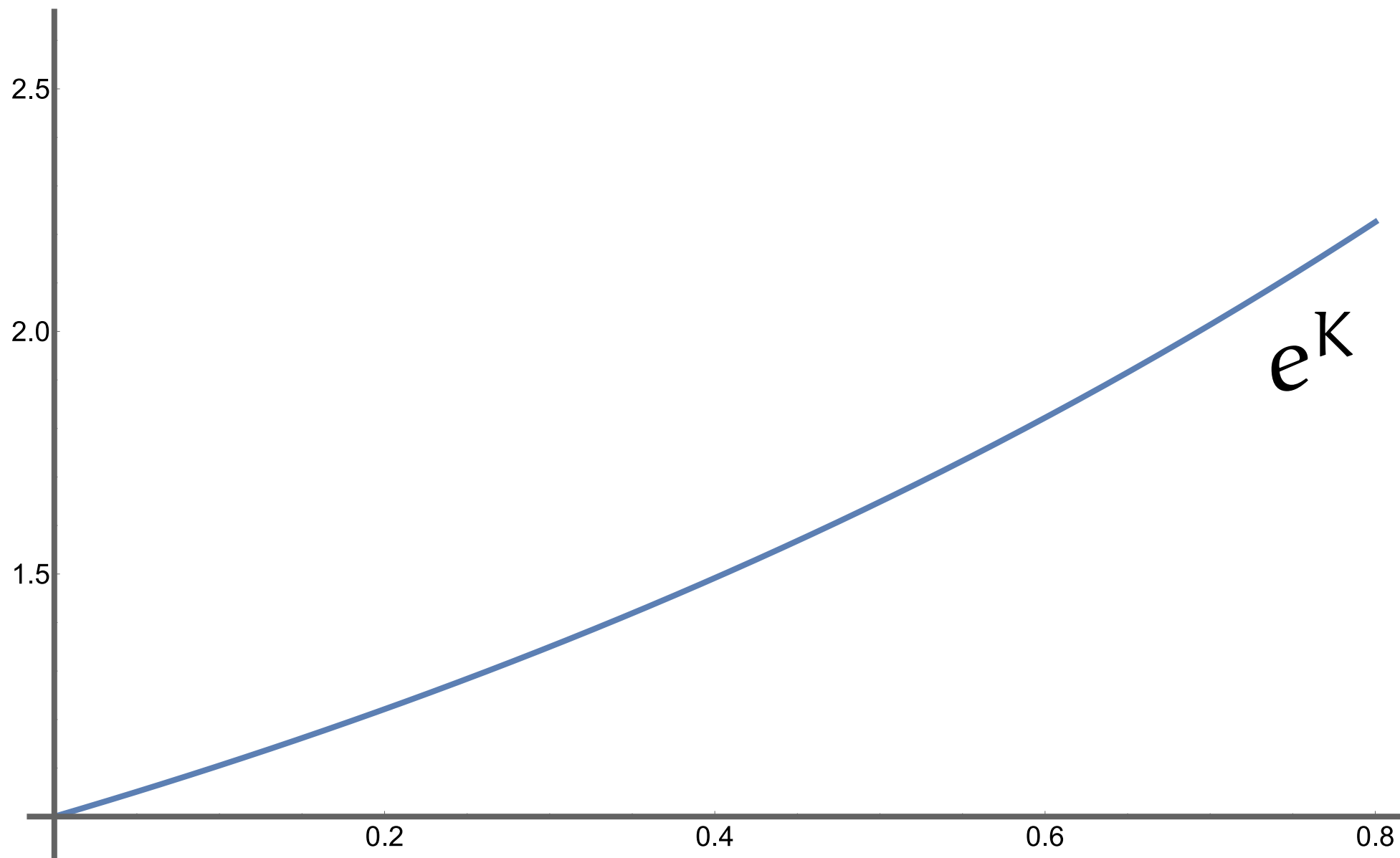
4

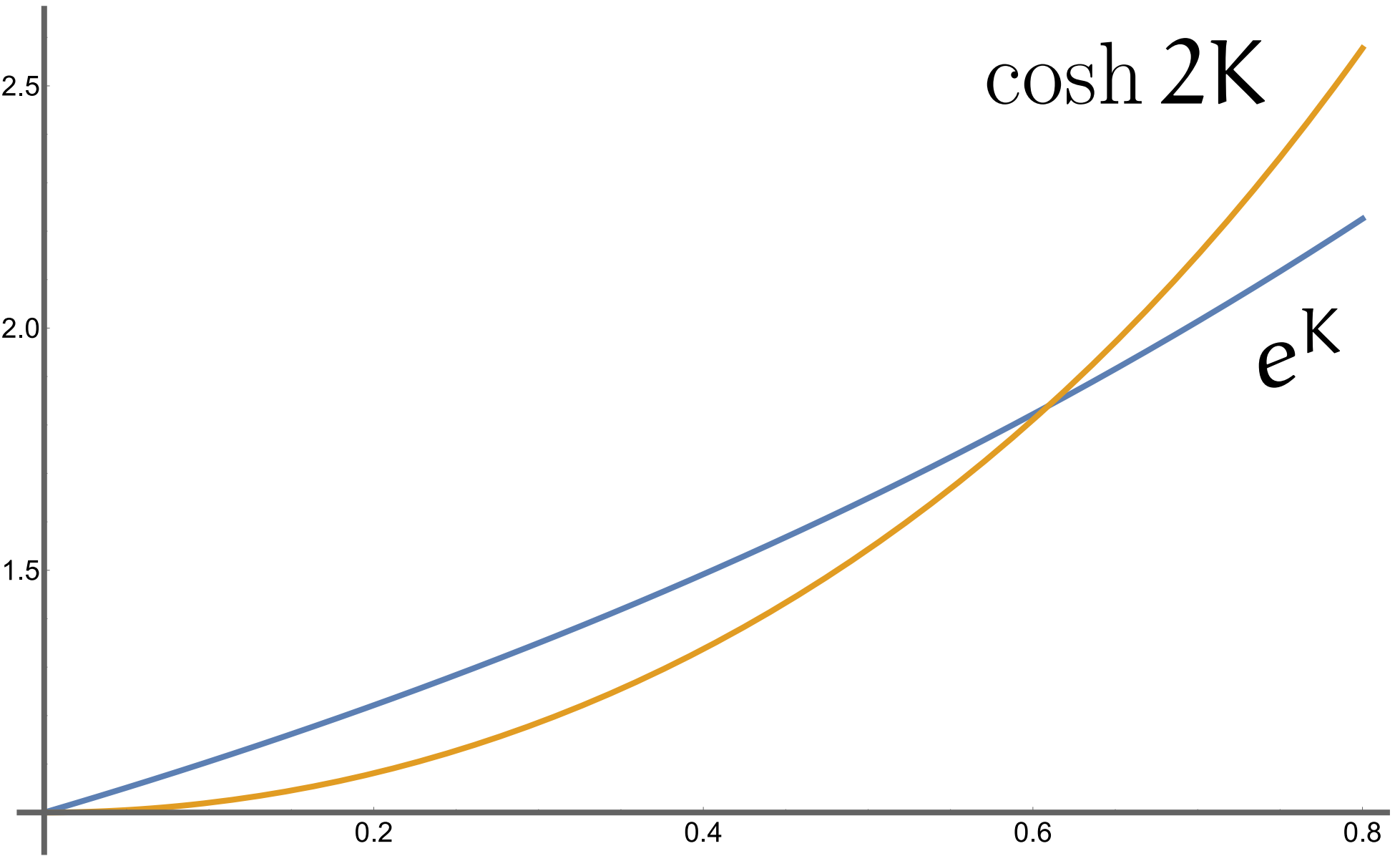
12

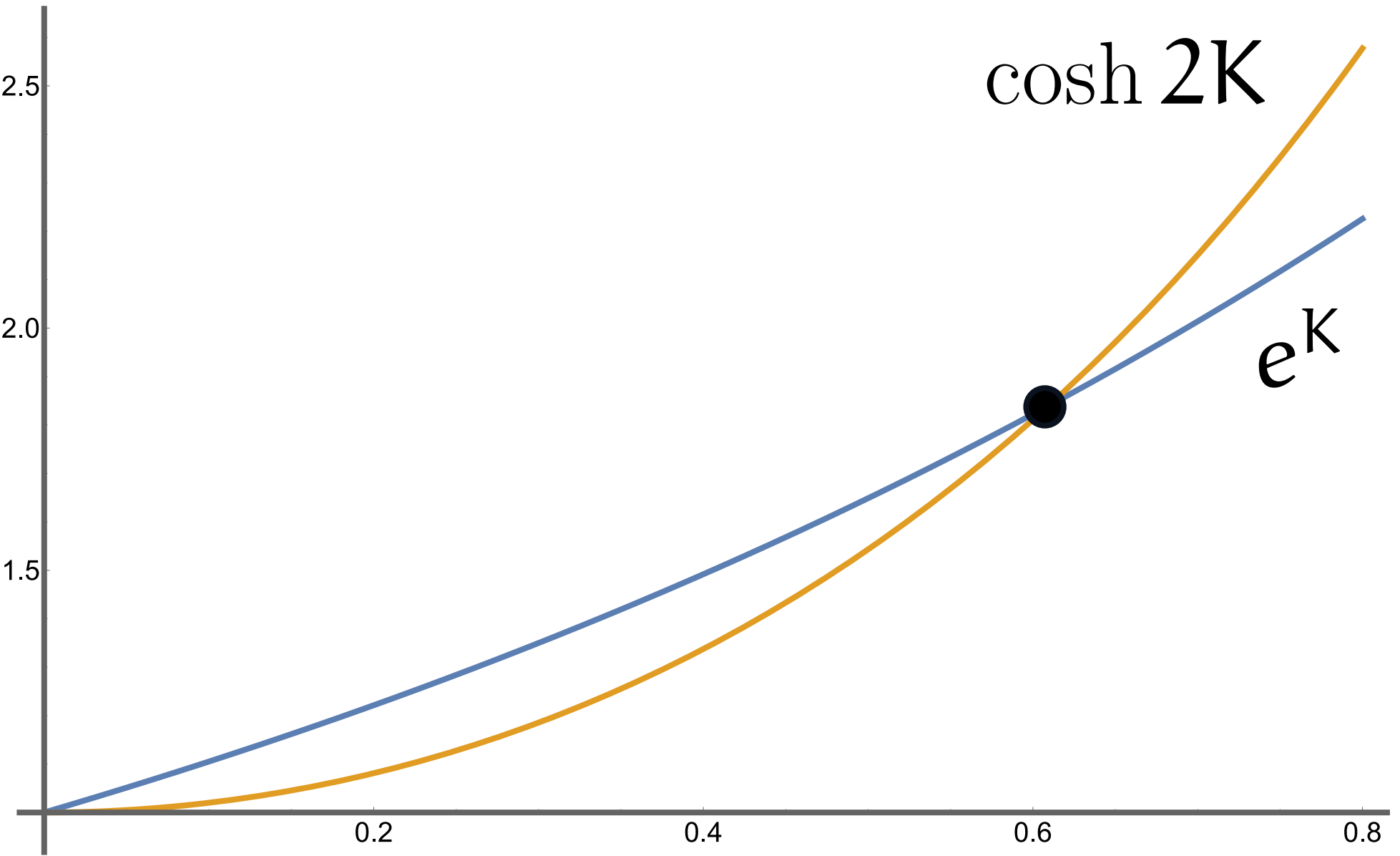
enlaces = 1

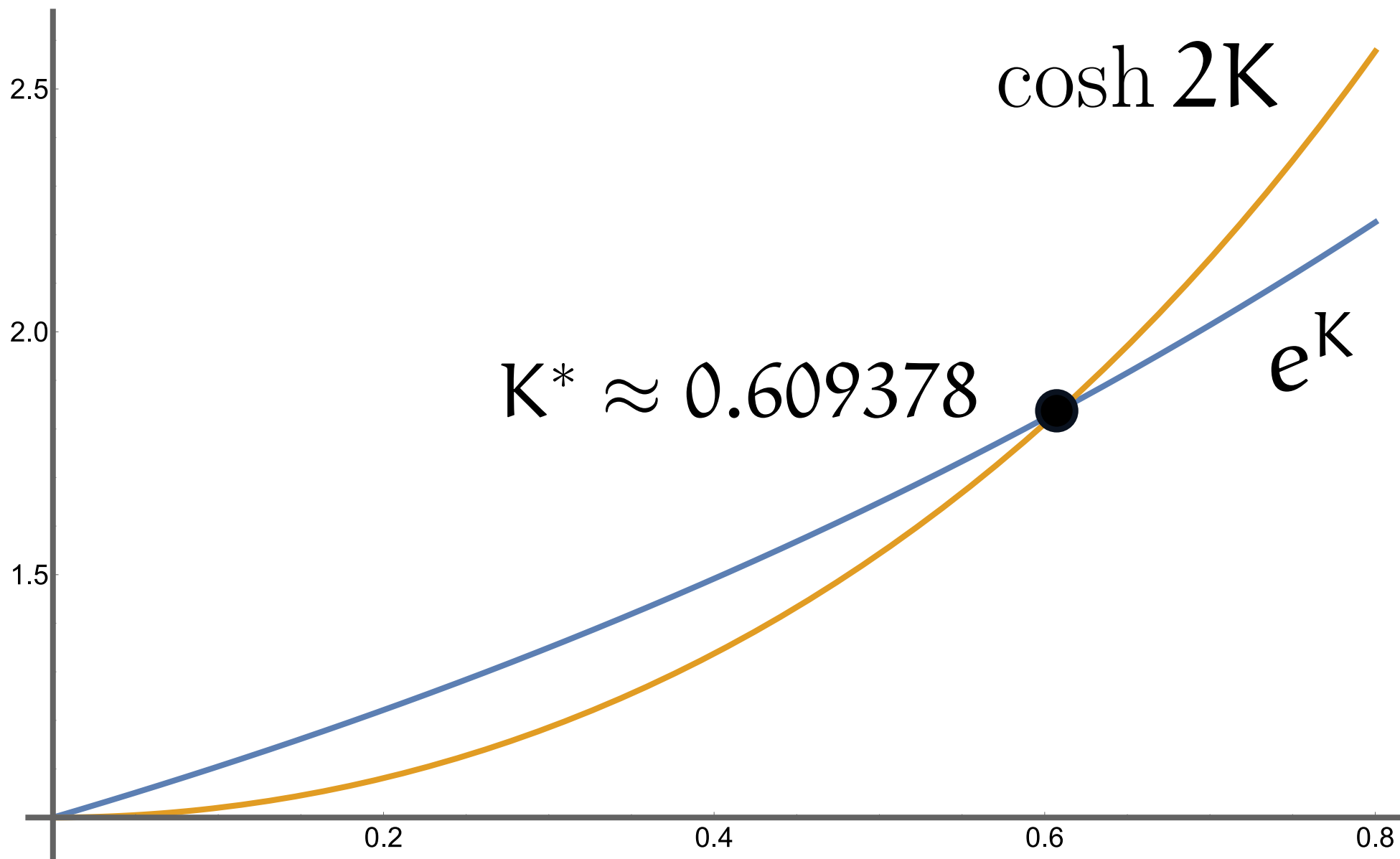
4

16









Función de partición para $n = 2$:

$$2048 \operatorname{Cosh} [2 k]^4 \left(1 + \operatorname{Cosh} [2 \operatorname{Log} [\operatorname{Cosh} [2 k]]]^2 \right)$$
$$= 1804 + \frac{2}{x^{16}} + \frac{16}{x^{12}} + \frac{248}{x^8} +$$
$$\frac{880}{x^4} + 880 x^4 + 248 x^8 + 16 x^{12} + 2 x^{16}$$

Función de partición: $n = 3$:

$$8\,796\,093\,022\,208 \operatorname{Cosh}[2k]^{16} \operatorname{Cosh}[2 \operatorname{Log}[\operatorname{Cosh}[2k]]]^4 \\ \left(1 + \operatorname{Cosh}[2 \operatorname{Log}[\operatorname{Cosh}[2 \operatorname{Log}[\operatorname{Cosh}[2k]]]]]^2\right)$$

Función de partición para $n = 3$:

$$\begin{aligned}
 & 3\,548\,913\,867\,916 + \frac{2}{x^{64}} + \frac{64}{x^{60}} + \frac{1248}{x^{56}} + \frac{17\,088}{x^{52}} + \frac{232\,176}{x^{48}} + \\
 & \frac{2\,765\,120}{x^{44}} + \frac{28\,181\,152}{x^{40}} + \frac{232\,480\,704}{x^{36}} + \frac{1\,595\,183\,672}{x^{32}} + \\
 & \frac{9\,058\,444\,096}{x^{28}} + \frac{42\,043\,615\,968}{x^{24}} + \frac{157\,163\,575\,232}{x^{20}} + \\
 & \frac{470\,449\,411\,216}{x^{16}} + \frac{1\,121\,327\,842\,368}{x^{12}} + \frac{2\,111\,620\,435\,360}{x^8} + \\
 & \frac{3\,108\,113\,902\,784}{x^4} + 3\,108\,113\,902\,784 x^4 + 2\,111\,620\,435\,360 x^8 + \\
 & 1\,121\,327\,842\,368 x^{12} + 470\,449\,411\,216 x^{16} + 157\,163\,575\,232 x^{20} + \\
 & 42\,043\,615\,968 x^{24} + 9\,058\,444\,096 x^{28} + 1\,595\,183\,672 x^{32} + \\
 & 232\,480\,704 x^{36} + 28\,181\,152 x^{40} + 2\,765\,120 x^{44} + \\
 & 232\,176 x^{48} + 17\,088 x^{52} + 1248 x^{56} + 64 x^{60} + 2 x^{64}
 \end{aligned}$$

Función de partición para $n = 4$:

$$2^{171} \times$$

$$\begin{aligned} & \text{Cosh}[2k]^{64} \text{Cosh}[2 \text{Log}[\text{Cosh}[2k]]]^{16} \\ & \text{Cosh}[2 \text{Log}[\text{Cosh}[2 \text{Log}[\text{Cosh}[2k]]]]]^{4} \\ & \left(1 + \text{Cosh}[2 \text{Log}[\right. \\ & \quad \left. \text{Cosh}[2 \text{Log}[\text{Cosh}[2 \text{Log}[\text{Cosh}[2k]]]]]]]^{2} \right) \end{aligned}$$

Función de partición para $n = 5$:

$$2^{683} \times$$

$$\begin{aligned} & \text{Cosh} [2 k]^{256} \text{Cosh} [2 \text{Log} [\text{Cosh} [2 k]]]^{64} \\ & \text{Cosh} [2 \text{Log} [\text{Cosh} [2 \text{Log} [\text{Cosh} [2 k]]]]]^{16} \text{Cosh} [\\ & \quad 2 \text{Log} [\text{Cosh} [2 \text{Log} [\text{Cosh} [2 \text{Log} [\text{Cosh} [2 k]]]]]]]^4 \\ & \left(1 + \text{Cosh} [2 \text{Log} [\text{Cosh} [2 \text{Log} [\text{Cosh} [\right. \\ & \quad \left. 2 \text{Log} [\text{Cosh} [2 \text{Log} [\text{Cosh} [2 k]]]]]]]]]^2 \right) \end{aligned}$$

Calor específico

