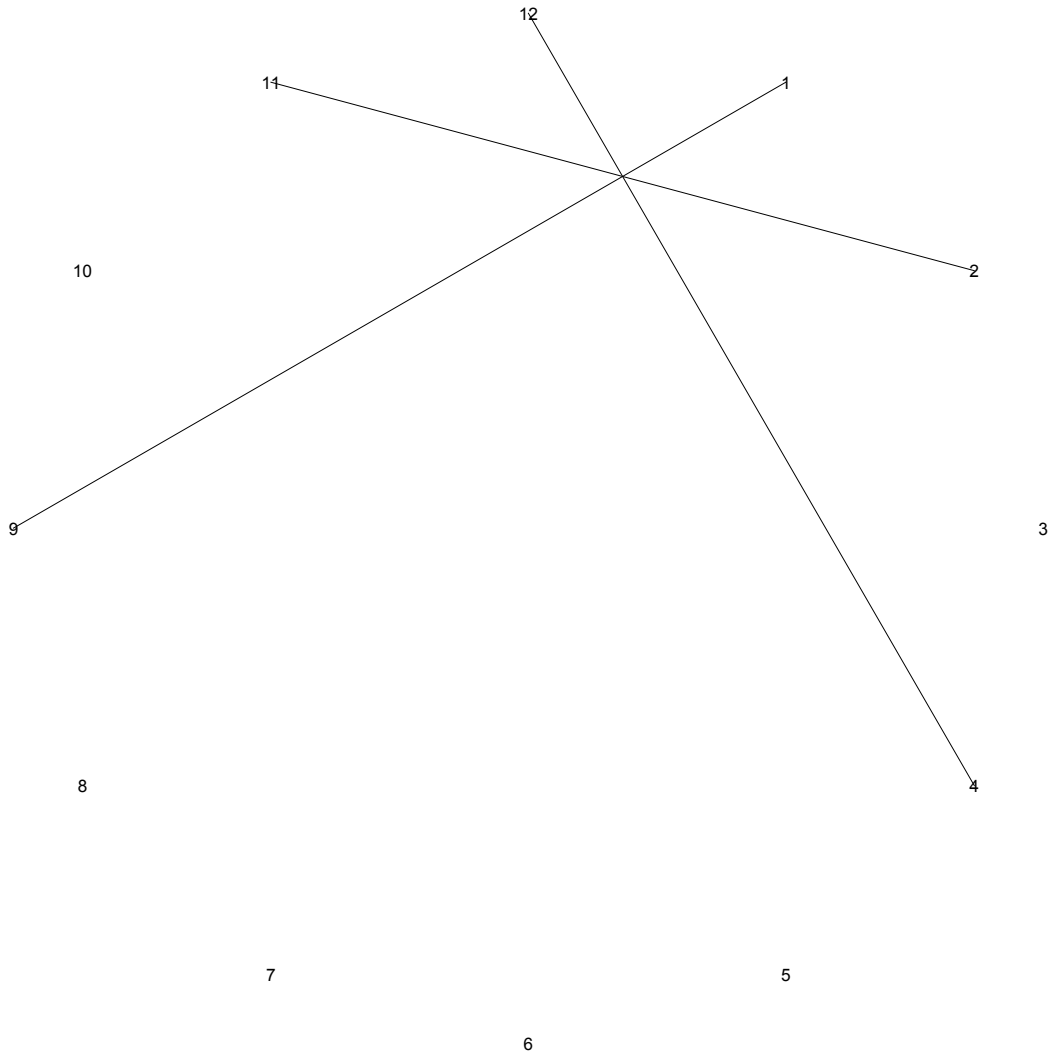


$$P_{k_} := \left\{ \text{Cos}\left[2\pi \frac{3-k}{12}\right], \text{Sin}\left[2\pi \frac{3-k}{12}\right] \right\};$$

```
Graphics[{
  Table[Text[k, Pk], {k, 12}],
  Line[{P1, P9}], Line[{P2, P11}], Line[{P4, P12}]
}]
```



$$e_{k_} := e^{2\pi i k/12};$$

$$\left\{ \text{Im}\left[\text{Conjugate}[e_1 - e_9] \frac{e_2 + e_{11}}{2}\right], \text{Im}[\text{Conjugate}[e_1] e_9] \right\} // \text{Simplify}$$

$$\left\{ -\frac{\sqrt{3}}{2}, -\frac{\sqrt{3}}{2} \right\}$$