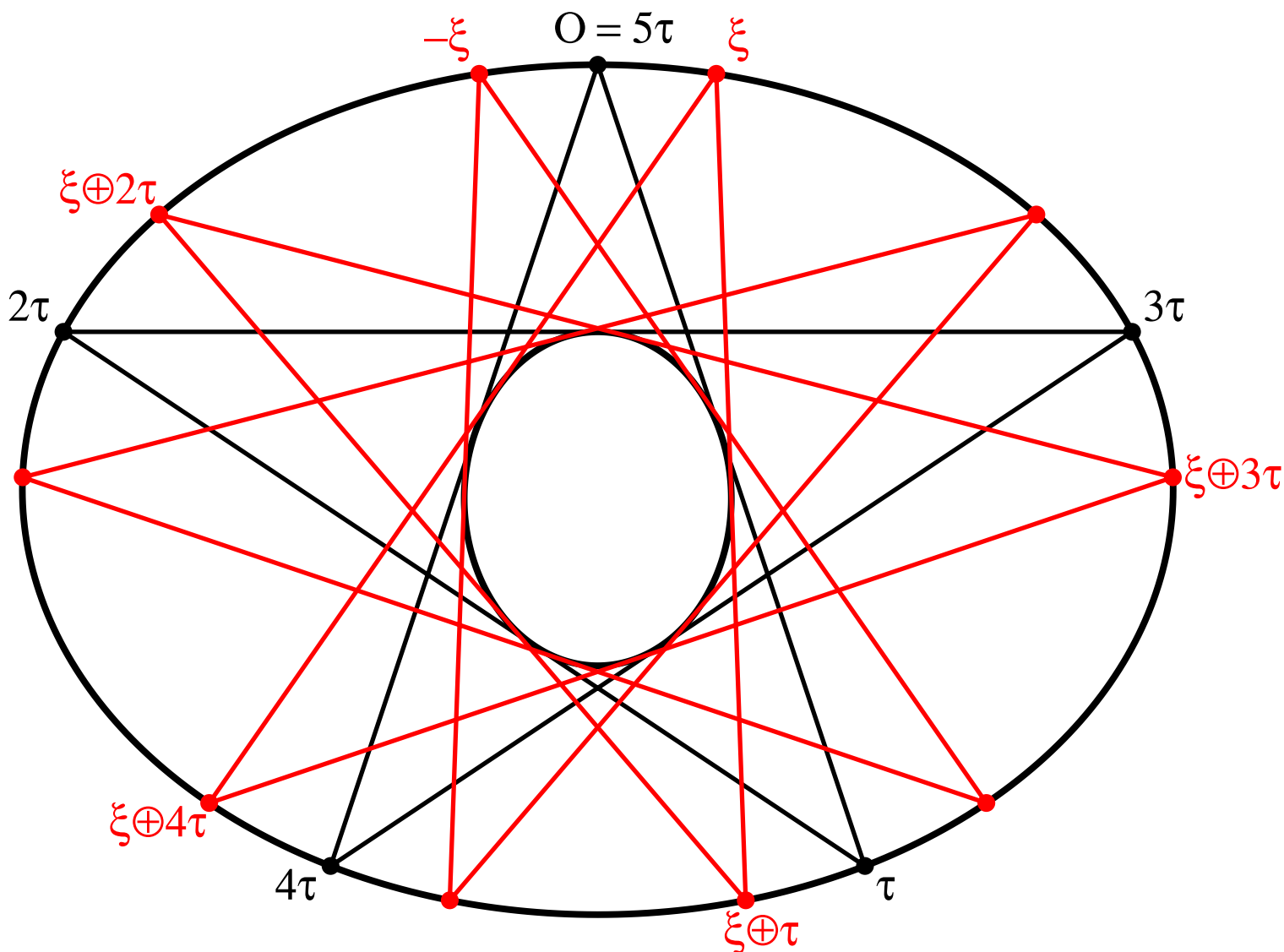


PONCELET'S PORISM

(period 5, over \mathbb{Q})



$$\text{Inner Ellipse: } 25x^2 + 16y^2 - 12y - 4 = 0$$

$$\text{Outer Ellipse: } 6x^2 + 11y^2 - 9y - 26 = 0$$

$$O = (0, 2)$$

$$\tau = (1, -1)$$

$$\xi = \left(\frac{91}{205}, \frac{403}{205} \right)$$

$$\xi \oplus \tau = \left(\frac{272}{491}, -\frac{554}{491} \right)$$