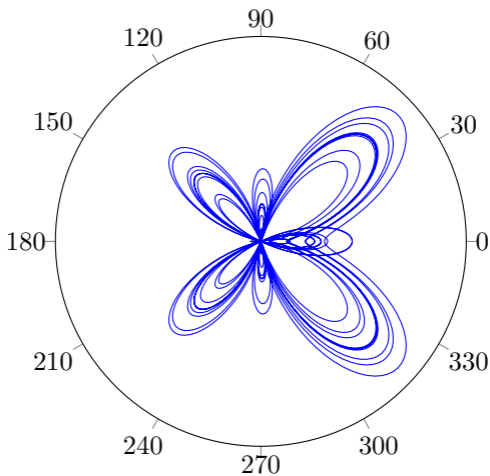
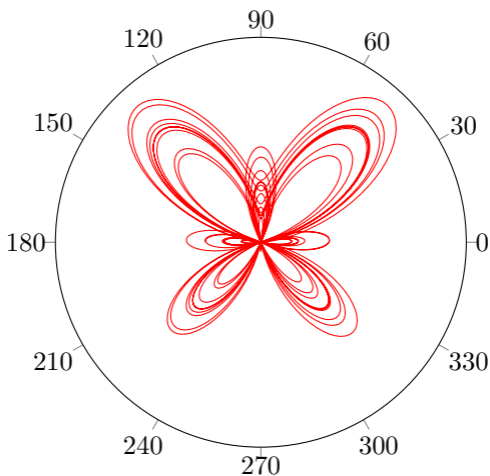


The Butterfly curve: Fay's polar equation



$$\rho = e^{\cos \vartheta} - 2 \cos(4\theta) + \sin^5(\vartheta/12)$$

The Butterfly curve: Geum and Kim's equation



$$\rho = e^{\sin \vartheta} - 2 \cos(4\theta) + \sin^5\left(\frac{2\vartheta - \pi}{24}\right)$$