$$\gamma(\pi/4) = \alpha(1/8) = \beta(7\pi/4)$$

$$\gamma(0) = \alpha(0) = \beta(2\pi)$$

$$\gamma(2\pi) = \alpha(1) = \beta(0)$$

 $\gamma(\pi/2) = \alpha(1/4) = \beta(3\pi/2)$

 $\gamma(3\pi/2) = \alpha(3/4) = \beta(\pi/2)$