$\dfrac{\pi}{4}$ $\dfrac{5\pi}{4}$

period $= \pi$

$b = \dfrac{2\pi}{P}$ tan/cot $p = \dfrac{\pi}{b}$

$b = \dfrac{2\pi}{\pi}$ period: $\underline{\pi}$ $\dfrac{2\pi}{\pi} = 2 = b$

$b = 2$

$y = a \ \cos(bx - c) + d$

5   2 $\dfrac{\pi}{4}$

amp.
a

$5 \cos\left(2x - \dfrac{\pi}{4}\right)$