convert between degrees and radian

To find degrees given radians:

$$\text{Degrees} = \text{Radians} * \frac{180°}{\pi}$$

⭐Note: you can have decimal answers ⭐

Examples:

① $\frac{3\pi}{4}$ convert to degrees

$$\frac{3\pi}{4} * \frac{180°}{\pi} = \frac{3\pi(180°)}{4\pi} = \frac{3(180°)}{4}$$

$$= 135°$$

② 6 radian, convert to degrees

$$\frac{6}{1} * \frac{180°}{\pi} = \frac{6(180°)}{\pi} = 343.77°$$

To find radians given degrees:

$$Radians = Degrees * \frac{\pi}{180°}$$

★Note: answer has to have π in it (no decimals)

Examples:

① $60°$, convert to radians

$$\frac{60°}{1} * \frac{\pi}{180°} = \frac{60\pi}{180} = \frac{60\pi}{180} = \frac{1\pi}{3}$$

② $-120°$, convert to radians

$$\frac{-120}{1} \cdot \frac{\pi}{180} = \frac{-120\pi}{180} = \frac{-2\pi}{3}$$