

Question 24

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Use complete sentences to explain the steps required in converting 180° to its equivalent radian measure. Include your calculations in your final answer. To convert the given degree measure to its equivalent in radians, all we need to do is to use the ratio of radians to degrees. Since we are starting with an angle measure in degrees, the ratio we would use is $\frac{2\pi}{360^\circ}$. We multiply this ratio by 180° to get our answer.

$$180^\circ * \frac{2\pi}{360^\circ} \tag{1}$$

$$\frac{180^\circ}{360^\circ} * 2\pi \tag{2}$$

$$\frac{1}{2} * 2\pi \tag{3}$$

$$\frac{2\pi}{2} = \pi \tag{4}$$