

Limit

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An important Limit:

$$\lim_{x \rightarrow 0} \frac{\sin x}{x} = 1$$

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Evaluate the limit

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$$\lim_{x \rightarrow 0} \frac{\sin x^\circ}{x}$$

Solution

$$\lim_{x \rightarrow 0} \frac{\sin x^\circ}{x}$$

Since

$$\pi \text{ Radian} = 180^\circ$$

$$1 \text{ Radian} = \left[\frac{180}{\pi} \right]^\circ$$