SOEN-6011 Project Poster

F1: $arccos(x)$

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Definition

The arccosine of x is defined as the inverse cosine function of x when -1≤x≤1. When the cosine of y is equal to x:

$$\cos y = x$$

Then the arccosine of x is equal to the inverse cosine function of x, which is equal to y:

$$\arccos(x) = \cos^{-1} x = y$$

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Domain and Range

The domain of arccos(x) is -1≤x≤1 and the range of arccos(x) is 0≤y≤ π $\left(0° \leq y \leq 180°\right)$.

Characteristics of arccos(x)

- This function is neither even nor odd.
- It is a decreasing function.
- Graph of arccos(x)