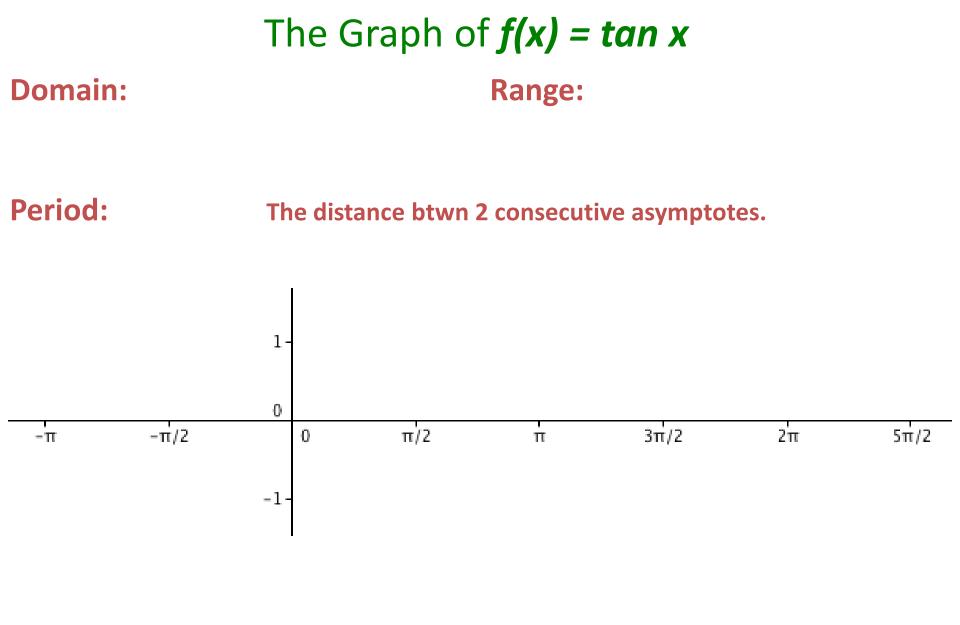
Pre-Calculus Sec. 4.6 **Graphs of Tangent** with Vertical & Horizontal Stretching & Shrinking



This graph has ______ symmetry, and is an ______ function.

Ex.1: Graph
$$y =$$

$$y = 2 \tan \frac{x}{4}$$

Amplitude: Not defined. Period: $\frac{\pi}{|b|}$ Phase Shift:



Ex.2: Graph
$$y = -3\tan 4x$$

Amplitude: Not defined. Period: $\frac{\pi}{|b|}$ Phase Shift:



Ex.3: Graph
$$f(x) = -\frac{1}{5} \tan \frac{\pi x}{3}$$

Amplitude: Not defined. Period: $\frac{\pi}{|b|}$ Phase Shift:

