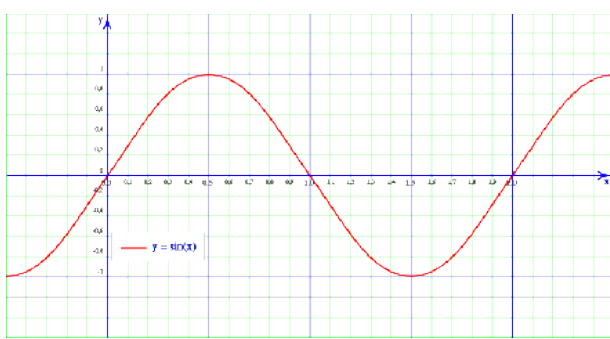
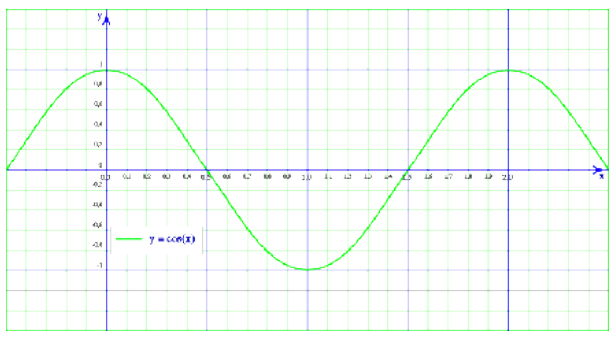


The sine function, $\sin(x)$



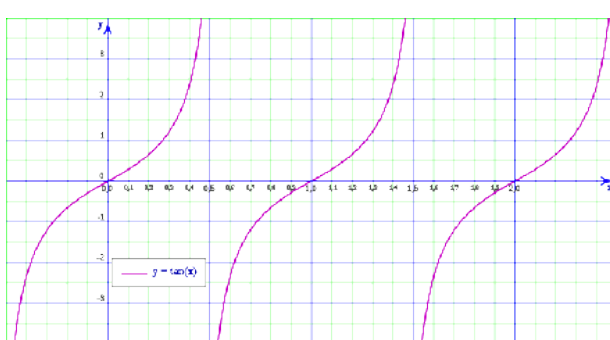
1. Domain: \mathbb{R}
2. Image: $[-1, 1]$
3. Period: 2π rad
4. Continuity: It is continuous on \mathbb{R}
5. Increasing
on: $\dots \cup (-\pi/2, \pi/2) \cup (3\pi/2, 5\pi/2) \cup \dots$
6. Decreasing
on: $\dots \cup (\pi/2, 3\pi/2) \cup (5\pi/2, 7\pi/2) \cup \dots$
7. Maxima at: $\{\pi/2 + 2\pi \cdot k, k \in \mathbb{Z}\}$
8. Minima at: $\{3\pi/2 + 2\pi \cdot k, k \in \mathbb{Z}\}$
9. Parity: Odd, $\sin^{[f0]}x = -\sin^{[f0]}(-x)$
10. Points of intersection with the axis
Ox: $x = k \cdot \pi, k \in \mathbb{Z}$

The cosine function, $\cos(x)$



1. Domain: \mathbb{R}
2. Image: $[-1, 1]$
3. Period: 2π rad
4. Continuity: It is continuous on \mathbb{R}
5. Increasing on: $\dots \cup (-\pi, 0) \cup (\pi, 2\pi) \cup \dots$
6. Decreasing on: $\dots \cup (0, \pi) \cup (2\pi, 3\pi) \cup \dots$
7. Maxima at: $\{2\pi \cdot k, k \in \mathbb{Z}\}$
8. Minima at: $\{\pi \cdot (2k+1), k \in \mathbb{Z}\}$
9. Parity: Pair $\cos^{[f0]}x = \cos^{[f0]}(-x)$
10. Points of intersection with the axis
Ox: $x = \pi/2 + k \cdot \pi, k \in \mathbb{Z}$

The tangent function, $\tan(x)$



1. Domain: $\mathbb{R} - \{(2k+1) \cdot \pi/2, k \in \mathbb{Z}\} = \mathbb{R} - \{\dots, -\pi/2, \pi/2, 3\pi/2, \dots\}$
2. Image: \mathbb{R}
3. Period: π rad
4. Continuity: It is continuous on $\mathbb{R} - \{\pi/2 + k\pi, k \in \mathbb{Z}\}$
5. Increasing on: \mathbb{R}
6. Maxima: No maxima
7. Minima: No minima
8. Parity: Odd $\tan^{[f0]}x = -\tan^{[f0]}(-x)$
9. Points of intersection with the axis Ox: