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# Tangent and cotangent functions

Graphing tangent and cotangent functions calculator. Tangent and cotangent functions graph. Find the domains of tangent and cotangent functions. Period of tangent and cotangent functions. Domain and range of tangent and cotangent functions. Graph of tangent and cotangent functions worksheet. Graphing tangent and cotangent functions worksheet with answers. Asymptotes of tangent and cotangent functions.

From the definition of the tangent and cotangent functions, we have  $\tan(\theta) = \frac{\sin(\theta)}{\cos(\theta)}$  and  $\cot(\theta) = \frac{\cos(\theta)}{\sin(\theta)}$ . The tangent function is not defined for values of  $\theta$  such that  $\cos(\theta) = 0$ . Now, consider the graph of the cosine function: from this graph, we see that  $\cos(\theta) = 0$  when  $\theta = \frac{\pi}{2} + k\pi$  for any integer  $k$ . This implies that the tangent function has vertical asymptotes at these values. Similarly, the cotangent function is not defined for values of  $\theta$  such that  $\sin(\theta) = 0$ , which occurs at  $\theta = k\pi$  for any integer  $k$ . The period of both functions is  $\pi$ . The domain of the tangent function is  $\theta \neq \frac{\pi}{2} + k\pi$  and the range is all real numbers. The domain of the cotangent function is  $\theta \neq k\pi$  and the range is all real numbers.

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