TRIGONOMETRY: TANGENT & COTANGENT REFERENCE

y = tan(x)

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Period: π
Domain: $x \neq \pi/2 + n\pi$
Range: $(-\infty, \infty)$
Intercepts: nπ

y = cot(x)

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Period: π
Domain: $x \neq n\pi$
Range: $(-\infty, \infty)$
Intercepts: $\pi/2 + n\pi$

Angle (x)	0	π/6	π/4	π/3	π/2
tan(x)	0	√3/3	1	√3	Undefined
cot(x)	Undefined	√3	1	√3/3	0

Key Differences: Tangent is an increasing function between asymptotes, while Cotangent is a decreasing function. Vertical asymptotes for Tangent occur at odd multiples of π/2, whereas for Cotangent they occur at integer multiples of π.