Continuity

A graph with no vertical asymptotes, point discontinuities or any other gaps in the domain or range is said to be **continuous**.

some examples of discontinuous graphs



## Differentiability

A function is differentiable at a point if the curve is **smooth continuous** and the tangent is not vertical at that point.





not differentiable at x = 1  $x = y^2$   $x = y^2$