## 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 $x=1$
not differentiable at $x=0$

not differentiable at $x=2$

Exercise 9K; 1, 2, 4c, 6ad, 8, 9
Exercise 9L;1, 2, 4, 5, 8, 10

