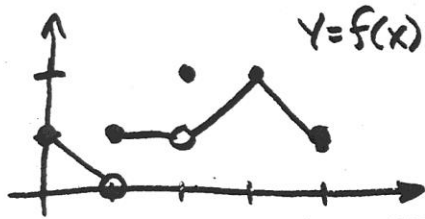


2.3 CONTINUITY



THE GRAPH
IS NOT CONTINUOUS
AT $x=1$ AND $x=2$
IT IS CONTINUOUS
EVERYWHERE ELSE IN
THE DOMAIN

DEFINITION OF CONTINUITY p.75

A FUNCTION IS CONTINUOUS

AT A POINT IF $\lim_{x \rightarrow c} f(x) = f(c)$

p.76 a) CONTINUOUS AT $x=0$.

b & c REMOVABLE DISCONTINUITY

d) JUMP DISCONTINUITY e) INFINITE DISCONTINUITY

f) OSCILLATING DISCONTINUITY

NOTE: A FUNCTION IS NOT CONTINUOUS WHERE
IT DOES NOT EXIST $y=\sqrt{x}$ NOT CONTINUOUS $x < 0$

HOMEWORK

p.80-81 \rightarrow 1-15, 19-24, 35-38, 41 *