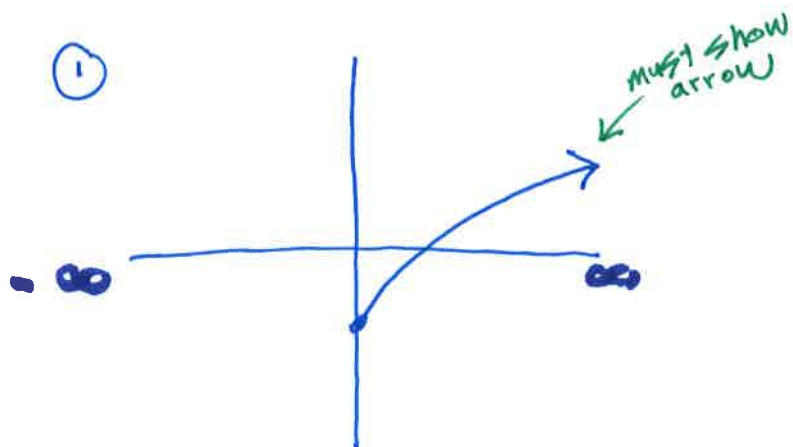


Analyze $f(x) = \sqrt{x} - 2$

①



Non-linear curve
with one endpoint

② There is an endpoint
with coordinates $(0, -2)$

③ domain $0 \leq x < \infty$

④ range $-2 \leq y < \infty$

⑤ (R) As $x \rightarrow +\infty$, $y \rightarrow +\infty$

there is no left end behavior
since there are no y -values
as $x \rightarrow -\infty$.

⑥ y -intercept $(0, -2)$

x -intercept
(when $y=0$)

$$0 = \sqrt{x} - 2$$
$$+2 \quad +2$$

$$2 = \sqrt{x} \quad \leftarrow \text{square both sides}$$

$$(2)^2 = (\sqrt{x})^2$$

$$x = 4$$

so the x -intercept
is $(4, 0)$

⑦ NO Asymptotes

⑧ No symmetry