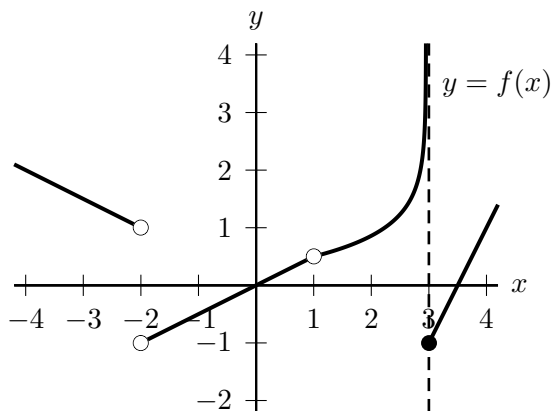


6. [11 points] Below is the graph of a portion of a function $f(x)$.



a. [2 points] Give all values of a in the interval $-4 < a < 4$ that are not in the domain of $f(x)$. If there are none, write NONE.

Answer: _____ -2, 1

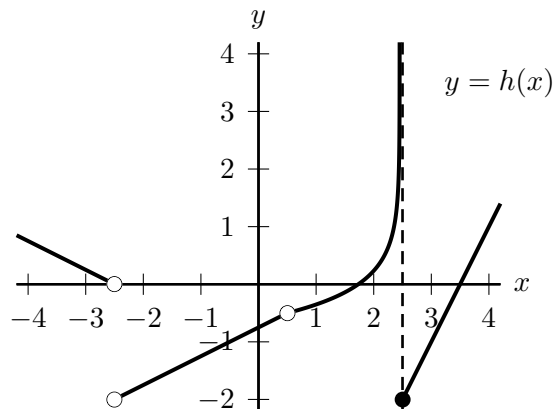
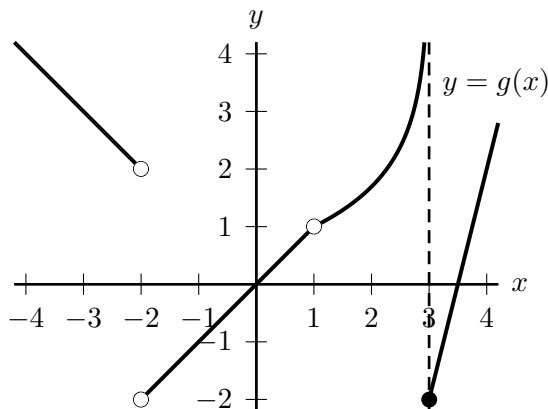
b. [2 points] Give all values of a in the interval $-4 < a < 4$ where $f(x)$ is not continuous at $x = a$. If there are none, write NONE.

Answer: _____ -2, 1, 3

c. [2 points] Give all values of a in the interval $-4 < a < 4$ where $\lim_{x \rightarrow a} f(x)$ does not exist. If there are none, write NONE.

Answer: _____ -2, 3

d. [5 points] The graphs below show portions of two other functions $g(x)$ and $h(x)$ which are transformations of $f(x)$. Express $g(x)$ and $h(x)$ as transformations of $f(x)$.



Answer: $g(x) =$ _____ $2f(x)$ and $h(x) =$ _____ $f(x + 0.5) - 1$