

Directions: These are my directions.

1. This problem taken from this source. Consider the function $y = f(x)$ displayed below. .

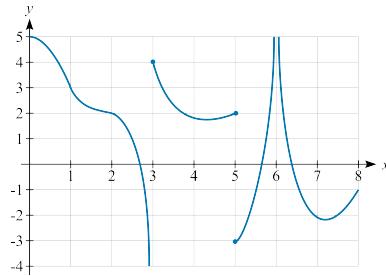


Figure 1: Graph of $y = f(x)$

- (a) At which value(s) of x does the function f have a removable discontinuity? If f has no removable discontinuities, write "NONE".

(a) _____

- (b) At which value(s) of x does the function f have a jump discontinuity? If f has no removable discontinuities, write "NONE".

(b) _____

- (c) At which value(s) of x does the function f have an infinite discontinuity? If f has no removable discontinuities, write "NONE".

(c) _____

- (d) Fill in the blank with either the word "right" or the word "left". At the point where $x = 1$, the function f is _____ continuous.

- (e) Fill in the blank with either the word "right" or the word "left". At the point where $x = 5$, the function f is _____ continuous.