

STATION 1

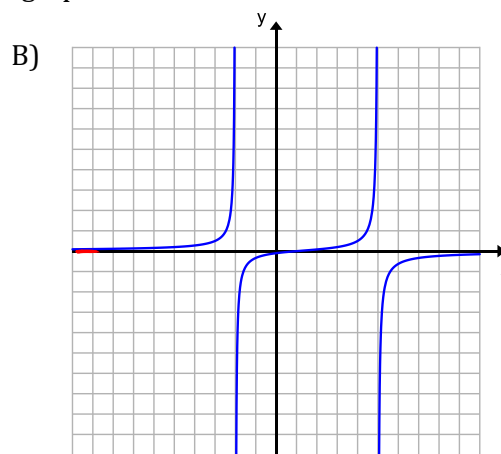
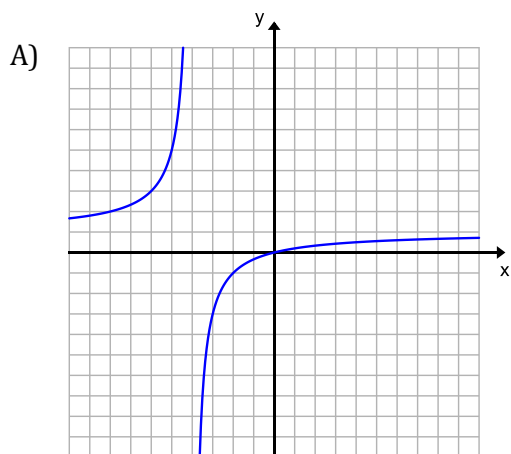
Identify domain, and all asymptotes for each problem.

A) $f(x) = \frac{x^2 + 4x + 3}{x - 2}$

B) $f(x) = \frac{x^2 - 7x + 12}{2x^2 - 5x - 3}$

STATION 2

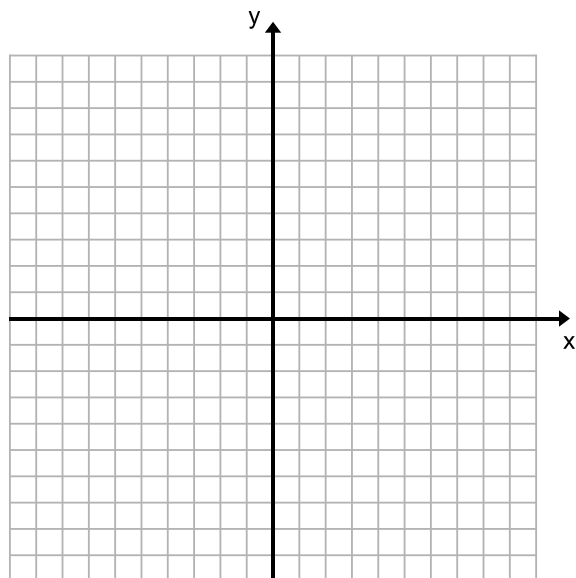
Look at the graph and determine Vertical Asymptotes, Horizontal Asymptotes, and use limits to describe the behavior of the graph.



STATION 3

Find all the pertinent information for the following and graph it!

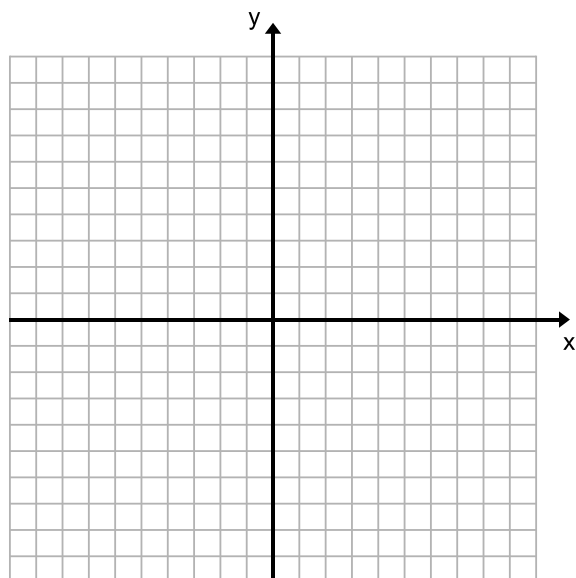
a. $f(x) = \frac{x-5}{x^2-2x-15}$



STATION 4

Find all the pertinent information for the following and graph it!

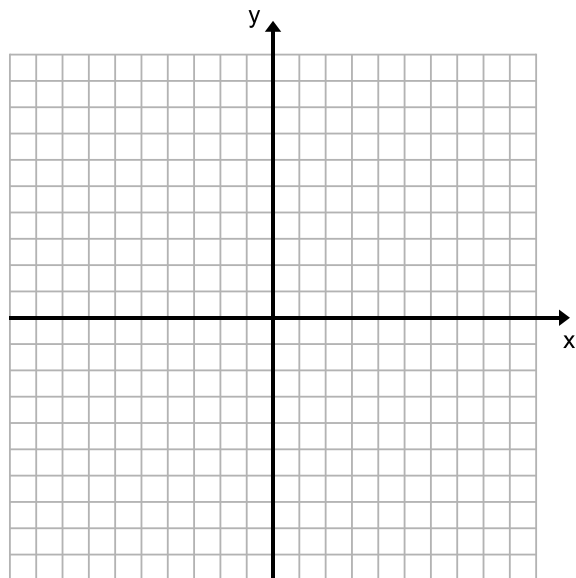
b. $f(x) = \frac{3x^2-2x-5}{x^2-2x-3}$



STATION 5

Find all the pertinent information for the following and graph it!

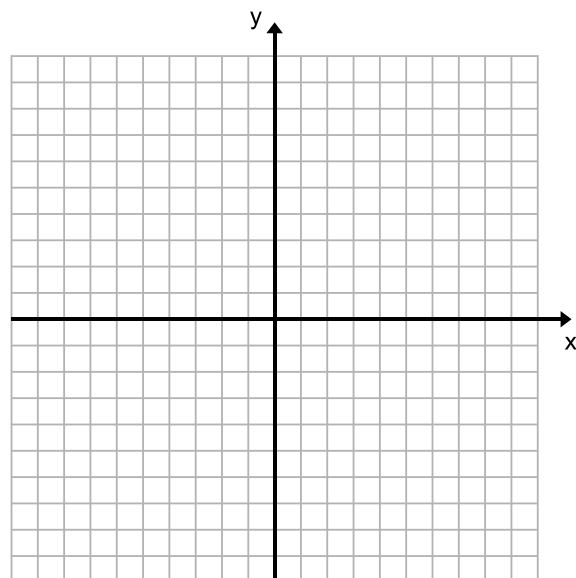
c. $f(x) = \frac{x^2 - 2x - 8}{x - 1}$



STATION 6

Find all the pertinent information for the following and graph it!

d. $f(x) = \frac{x - 2}{x^3 + 2x^2 - 8x}$



STATION 7

Pick **three** things from the list below that you have a hard time remembering how to do. For each of those three write down key things you need to remember.

- a. Finding the x-intercepts
- b. Finding the y-intercepts
- c. Finding the Horizontal Asymptotes
- d. Finding the Vertical Asymptotes
- e. Finding the Removable Discontinuities
- f. Finding the Slant asymptotes
- g. Finding the end behavior of the entire graph
- h. Finding the limits around the V.A.