

Pre-Calculus
Describing Features of Rational Graphs

Name _____
Collected/Not Collected

For each function, complete the list of information:

1. Describe the domain.
2. Identify any holes in the graph.
3. Identify the vertical asymptotes.
4. Find the x- and y-intercepts.

a. $f(x) = \frac{3x-6}{x^3-4x}$	b. $f(x) = \frac{x^2+3x-10}{x^2+8x+15}$
c. $f(x) = \frac{x^2+5x+6}{x+3}$	d. $f(x) = \frac{x^2+x-12}{x-4}$
e. $f(x) = \frac{x-4}{x^2-x-12}$	f. $f(x) = \frac{2x+1}{x^2-x}$
g. $f(x) = \frac{x^2-x-2}{x-2}$	h. $f(x) = \frac{3x-9}{x^3-9x}$