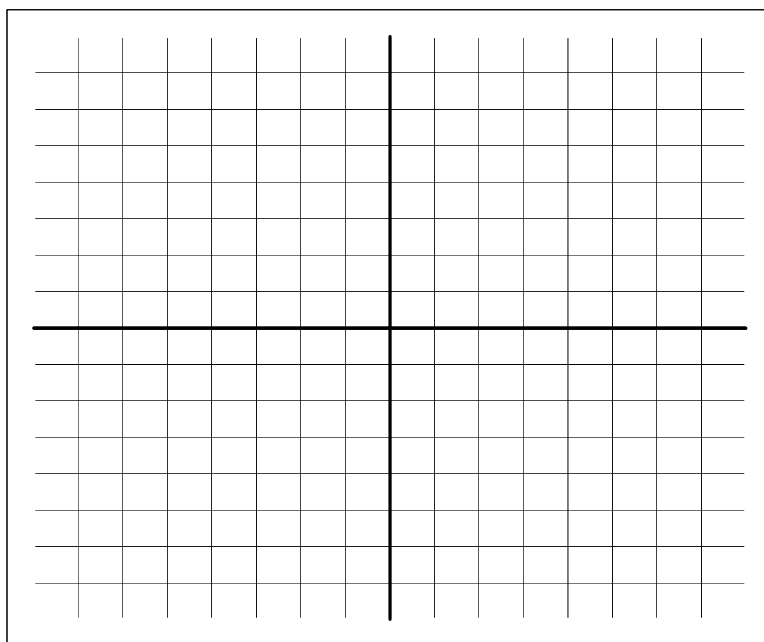


For each function below,

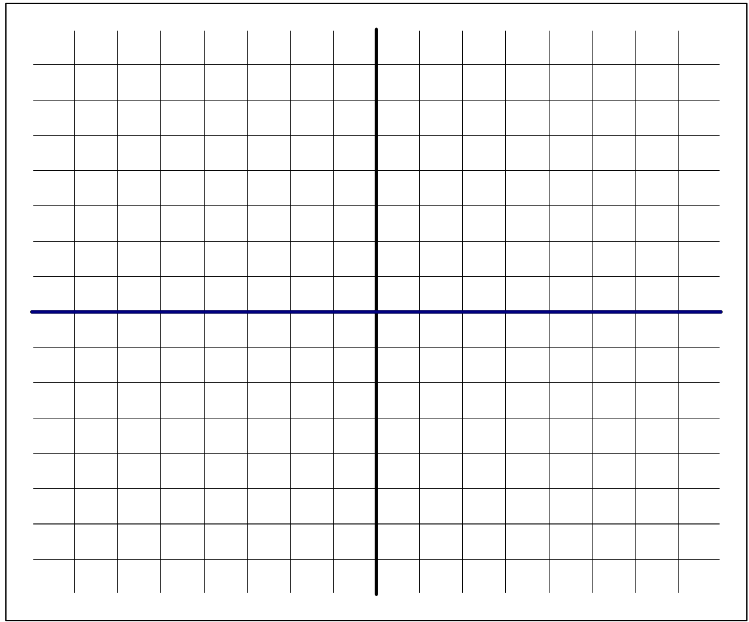
- (a) Find the domain.
- (b) Find the intercepts.
- (c) Determine if the function has any symmetry.
- (d) Find any vertical asymptotes or holes.
- (e) Find any horizontal or oblique asymptotes.
- (f) Graph the function using your calculator.
- (g) Use the results obtained in steps (a) – (f) to sketch a neat graph of the function, labeling intercepts, holes, and asymptotes.

1. $f(x) = \frac{x^2}{x^2 - 9}$

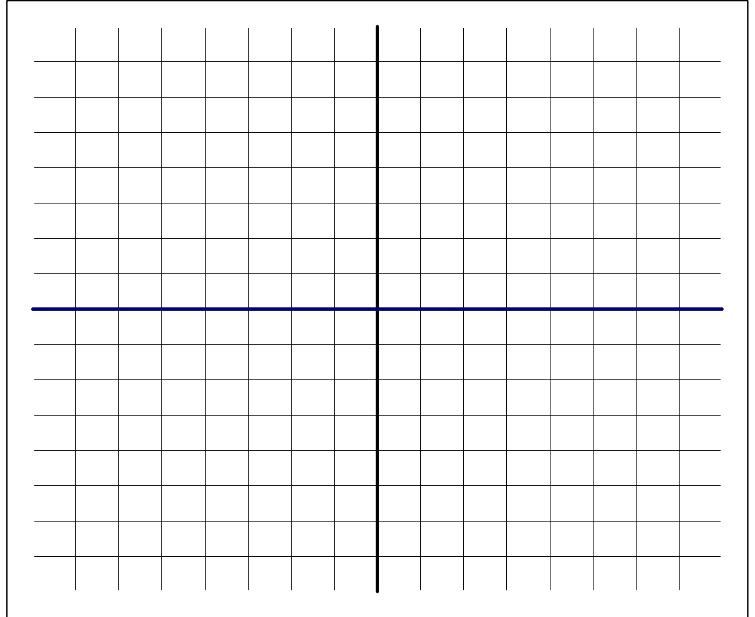


OVER →

2. $f(x) = \frac{x^2 - 4}{x - 1}$



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



HW: 3.4 (p. 224)/ #3, 9 - 17 odd, 23, 35, 39, 41, 43

3.5 (p. 234)/ #3, 11, 15, 19, 27, 33, 47, 51

TEST #2 (on Chapter 3) will be given next Friday, October 15