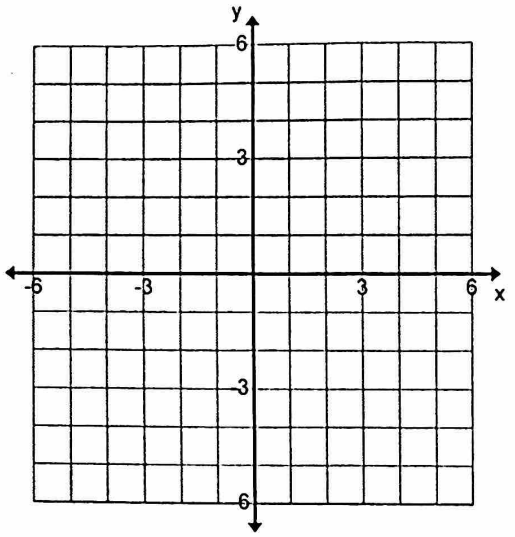
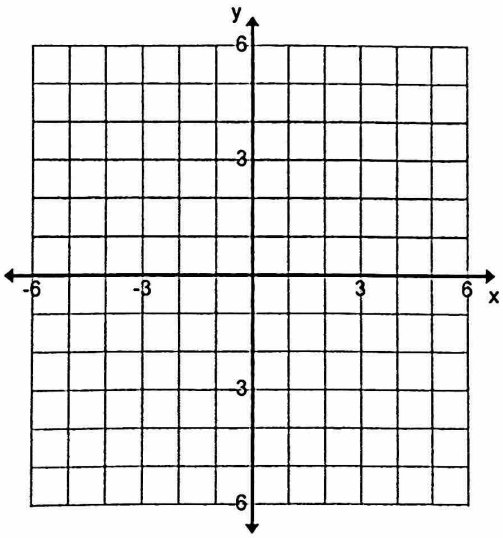
Ch 4 Practice Test

For the following problems list the transformations, find the equations of the asymptotes, find the domain, range and sketch a graph.

1. $y=\dfrac{2}{x+3}$

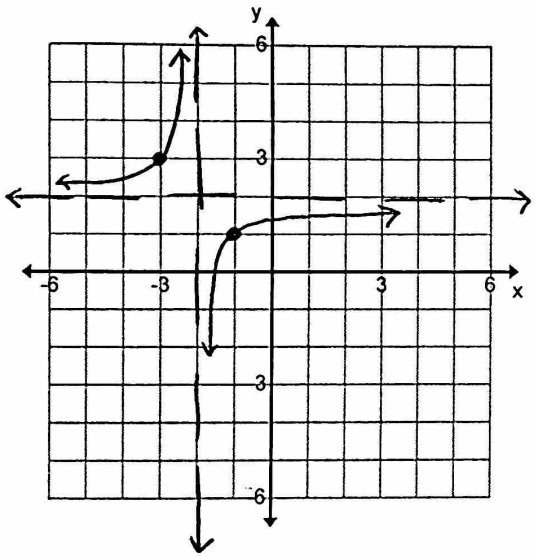


2. $y=-\dfrac{1}{x-5}+4$

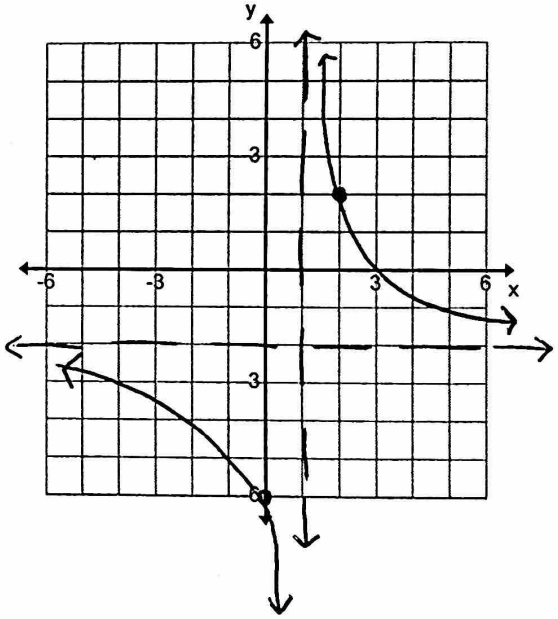


Find the equations given the following graphs.

3.



4.



5. Use $f(x)=\dfrac{x^2-5x-14}{2x^2-11x+12}$ to find the following pieces of the graph.

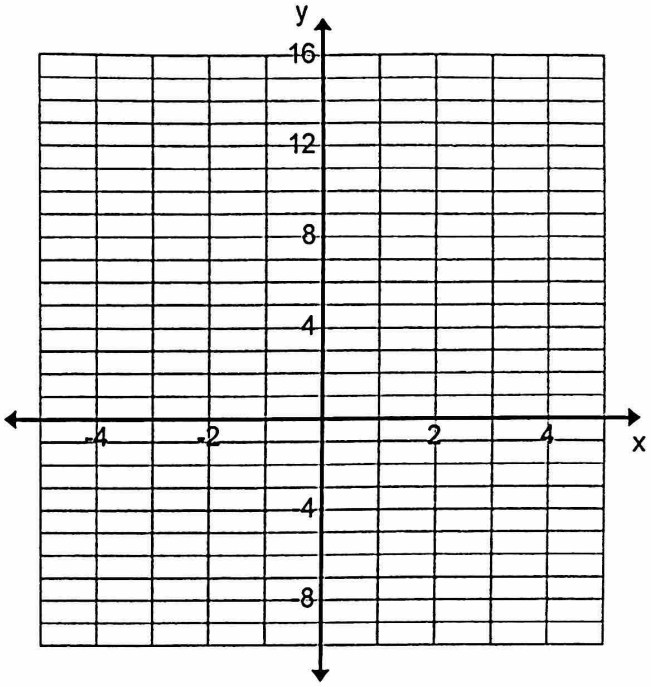
a. Vertical Asymptote(s):

b. Horizontal Asymptote:

c. X-intercept(s):

d. Y-intercept(s):

6. Use long division to rearrange the following equation & then graph it using transformations. $g(x)=\dfrac{5x}{x-2}$



7. Find all the key pieces of $f(x)=\dfrac{2x+5}{x-1}$ then graph the function.

a. Vertical Asymptote(s):

b. Horizontal Asymptote:

c. X-intercept(s):

d. Y-intercept(s):