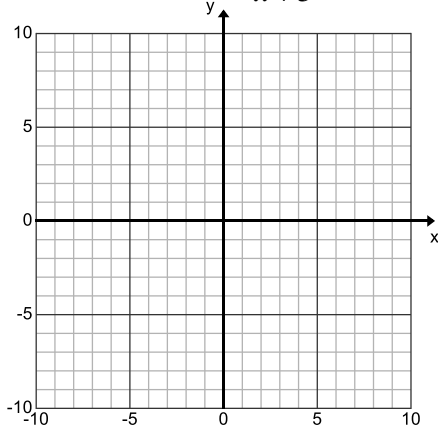


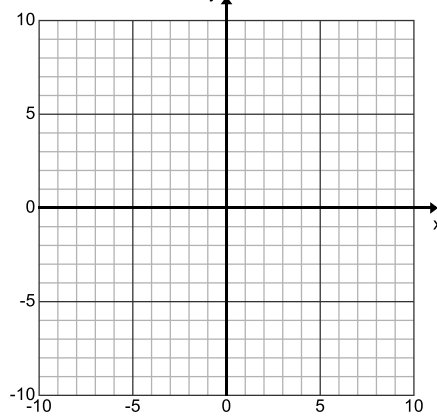
Directions: Complete with your partner. Turn in both sheets. Show work.

1. Use transformations to graph:

a. $f(x) = -\frac{1}{x+5}$

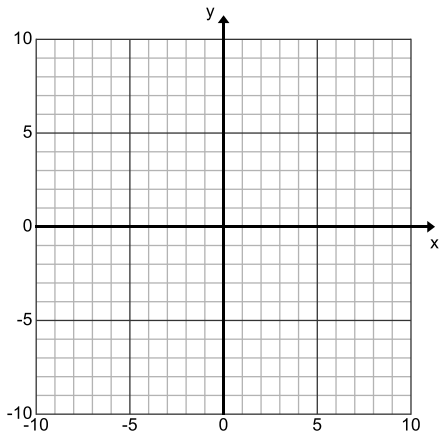


b. $f(x) = \frac{1}{x-3} - 5$

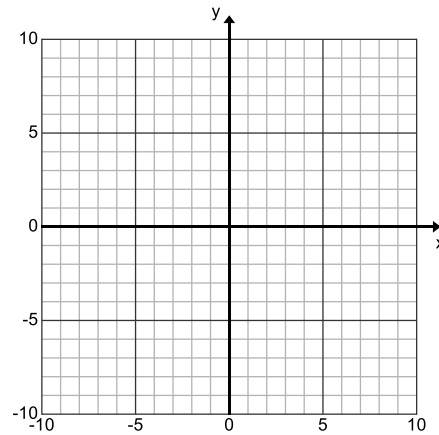


2. (a-c) Find the Vertical Asymptote(s), Removable Discontinuities, Horizontal Asymptote or slant asymptote, x-intercept(s), y-intercept, and graph.

a. $f(x) = \frac{x+1}{x^2-4x-12}$



b. $f(x) = \frac{x^2-4x-12}{x^2+5x+6}$



V.A.:

Removable:

H.A./Slant A.:

x-int:

y-int:

V.A.:

Removable:

H.A./Slant A.:

x-int:

y-int:

c. $f(x) = \frac{x^2 - 3x - 10}{x - 4}$

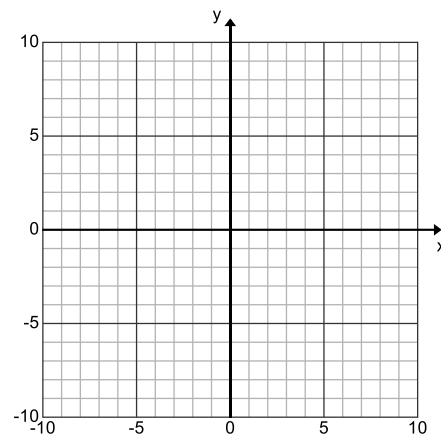
V.A.:

Removable:

H.A./Slant A.:

x-int:

y-int:



3. Evaluate the limits at each vertical asymptote and end behaviors.

