NAME _____ **Hour** _____

2C.3 WS #1 Graphing Rational Functions

1. Use the rational function $f(x) = \frac{3}{x-2}$ to complete the following. Show all work and label the graph appropriately.

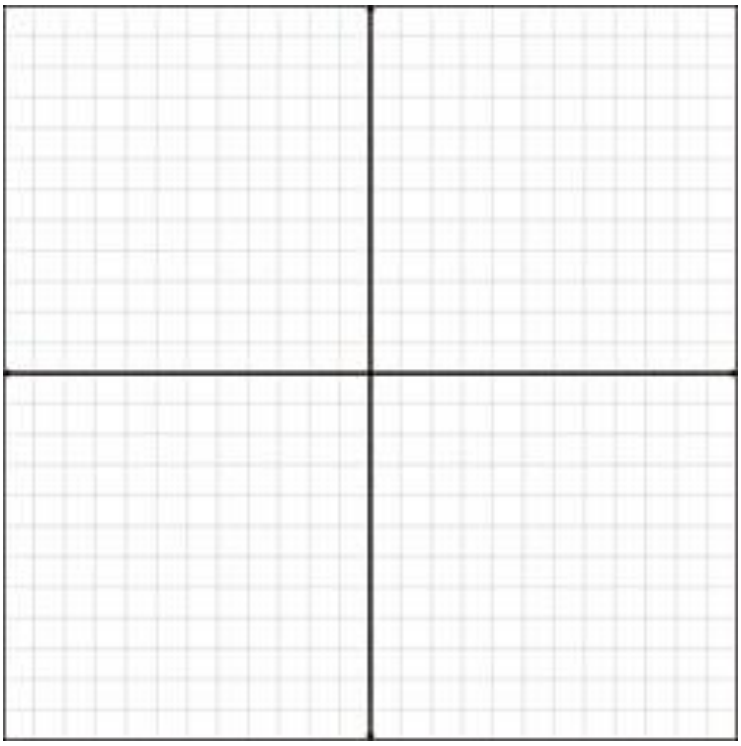
   a. Vertical Asymptote(s):

   b. Horizontal Asymptote:

   c. Slant Asymptote:

   d. Additional Points:

x	$f(x)$



   e. x-intercept(s):

   f. y-intercept(s):

   g. Domain:

   h. Sketch the graph of the rational function.

2. Use the rational function $f(x) = \frac{2x-1}{x}$ to complete the following. Show all work and label the graph appropriately.

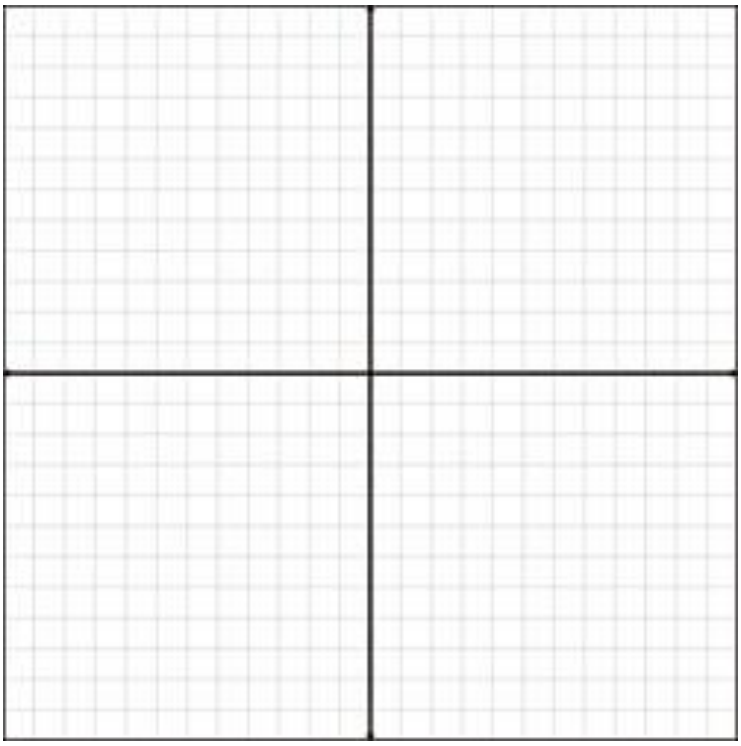
a. Vertical Asymptote(s):

b. Horizontal Asymptote:

c. Slant Asymptote:

d. Additional Points:

x	$f(x)$



e. x-intercept(s):

f. y-intercept(s):

g. Domain:

h. Sketch the graph of the rational function