Algebra 2 – Graphing Rational Functions Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Graph the function, including asymptotes. Identify the domain and range.

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

Domain: Domain:

Range: Range:

Transformation: Transformation:

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

Domain: Domain:

Range: Range:

 Transformation: Transformations:

Graph the function, including asymptotes. Identify the domain and range.

5. $y= \frac{2x}{x+4}$ x = y = 6. $y= \frac{x-1}{2x-3}$ x = y =



Domain: Domain:

Range: Range:

1. $y= \frac{3x+1}{2x+1}$ x = y = 8. $y= \frac{-4x}{2x-2}$ x = y =



Domain: Domain:

Range: Range: