

Business PreCalculus MATH 1643 Section 004, Spring 2014
Worksheet 21

- 1- Find the domain of the rational function $f(x) = \frac{x-7}{x^2-6x-7}$.
- 2- Find the vertical asymptote(s) of $f(x) = \frac{x^2-4}{x^2+x-6}$.
- 3- Find the horizontal asymptote(s) of $f(x) = \frac{2x-1}{x^2-4}$.
- 4- Find a rational function $f(x) = \frac{N(x)}{D(x)}$ that has $f(0) = 0$, $f(x) \rightarrow 2$ as $x \rightarrow \pm\infty$, has no vertical asymptote and is symmetric about the y -axis.
- 5- Find the x -intercepts of $f(x) = \frac{x+1}{x-1}$.
- 6- Find the y -intercepts of $f(x) = \frac{x+2}{x^2+4}$.