

FUNCTION REVIEW WKST 4 – RATIONAL FUNCTIONS

Graph of each of the following functions on graph paper. Be sure to find and label all asymptotes, x and y intercepts, and the range and domain of each of the following.

1. $f(x) = \frac{1}{x-4}$

2. $f(x) = -\frac{1}{x+2}$

3. $f(x) = \frac{x-3}{x+2}$

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

5. $f(x) = \frac{x}{x^2+1}$

6. $f(x) = \frac{4x^2}{3x^2-1}$

7. $f(x) = \frac{2x}{\sqrt{3x^2+1}}$

8. $f(x) = \frac{x^2+2x-15}{x-1}$

9. $f(x) = \frac{2x^2-11x+12}{x-4}$