

Graphing Simple Rational Functions

Identify the vertical asymptotes, horizontal asymptote, domain, and range of each.

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

$$2) f(x) = \frac{4}{x-1} + 1$$

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

$$4) f(x) = -\frac{3}{x}$$

Identify the vertical asymptotes, horizontal asymptote, domain, and range of each. Then sketch the graph.

$$5) f(x) = \frac{3}{x+1} - 2$$

$$6) f(x) = \frac{3}{x+1} + 2$$

