

Pre-Cal Ch. 2-6 Sketching Rational Functions

Identify intercepts, any asymptotes, and sketch.

* check graphs on a graphing calculator

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

$$2) y = \frac{8x}{x^2+4}$$

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

$$4) g(x) = \frac{2x-x^2}{x^2+4x-5}$$

$$5) f(x) = \frac{x^3+3x^2-4}{x^2}$$

$$6) f(x) = \frac{4}{x^2+1}$$

$$7) g(x) = \frac{x^3}{x^2-1}$$

$$8) h(x) = \frac{x^3-4x}{x^2-1}$$