

Name: _____

Math 3 Parts of Rational Functions

For each function, identify the holes, intercepts, horizontal asymptote, vertical asymptotes and domain.

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

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

3) $f(x) = \frac{x^3 + 7x^2 + 12x}{3x^2 + 15x + 18}$

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

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

6) $f(x) = \frac{x^2 + 4x}{-2x^2 + 8}$