

Rational Expressions WS #2

© 2013 Kuta Software LLC. All rights reserved.

Simplify. Find the excluded values and x-intercepts.

1) $f(x) = \frac{x^2 + 6x + 8}{4x + 12}$

2) $f(x) = \frac{x^3 - 2x^2 - 8x}{4x^2 - 12x}$

3) $f(x) = \frac{x^2 - 3x - 4}{4x - 12}$

4) $f(x) = \frac{x^2 + 5x + 4}{2x^2 + 14x + 24}$

$$5) \ f(x) = \frac{x^2 - 1}{-4x + 8}$$

$$6) \ f(x) = \frac{x^3 - x^2 - 2x}{-4x^2 - 4x + 8}$$

$$7) \ f(x) = \frac{x^3 - 3x^2 + 2x}{4x^2 - 8x - 12}$$

$$8) \ f(x) = \frac{x^3 + x^2 - 2x}{3x^2 - 3x - 6}$$

$$9) \ f(x) = \frac{x^3 - 5x^2 + 4x}{4x^2 - 12x}$$

$$10) \ f(x) = \frac{x^3 + x^2 - 6x}{3x^2 - 3x - 36}$$