

Rational Expressions WS #3

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Find the excluded values, the x-intercepts and y-intercept. Then simplify the function.

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

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

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

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

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

$$6) \ f(x) = \frac{x^2 + 5x + 6}{3x^2 - 3x - 18}$$

$$7) \ f(x) = \frac{x^3 - 16x}{3x^2 + 6x}$$

$$8) \ f(x) = \frac{x+3}{-2x^2 + 2x + 24}$$

$$9) \ f(x) = \frac{x^2 + 3x}{-4x - 8}$$

$$10) \ f(x) = \frac{-x^2 + 5x - 6}{x^2 + x - 2}$$