

Rational Equations WS #4

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Identify the vertical asymptotes and x-intercepts and y- intercepts of each.

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

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

3) $f(x) = \frac{x^2 - 3x + 2}{2x^2 + 4x - 16}$

4) $f(x) = \frac{1}{-3x^2 - 3x + 18}$

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

$$6) \ f(x) = \frac{-x^2 - 3x + 4}{x^2 - 9}$$

$$7) \ f(x) = \frac{x}{-3x - 12}$$

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

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

$$10) \ f(x) = \frac{x^3 - x^2 - 12x}{-4x^2 + 12x}$$