

Third Quiz for Math 30

Name: _____

1. Consider the rational function:

$$f(x) = \frac{x^2 + 2x - 15}{x^2 - 4x + 3}$$

- (a) Determine the x and y intercepts of the graph of $y = f(x)$.

- (b) Determine the vertical and horizontal asymptotes of f , if they exist.

- (c) Determine how the sign of f changes.

- (d) Draw a rough sketch of the graph of $y = f(x)$.