

Name

Score



Find the horizontal asymptotes of the functions and show all steps.

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

Show all steps here

$$f(x) = \frac{x^2 - 9}{x^2 - 2x - 15}$$

Show all steps here

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

Show all steps here

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

Show all steps here

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

Show all steps here



Find the horizontal asymptotes of the functions and show all steps.

$$y = 3$$

$$y = 1$$

$$y = 0$$

$$y = 0$$

$$y = 1$$