

Quiz 1 Module7

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

Find the domain.

- a) $\{x|x \neq -3\}$ c) $\{x|x \neq -4\}$
b) $\{x|x \neq 2\}$ d) *all real numbers*

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

Find the Range

- a) $\{x|x \neq -3\}$ c) $\{x|x \neq -4\}$
b) $\{x|x \neq 2\}$ d) *all real numbers*

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

There is a vertical asymptote at

- a. $x = 2$ b. $x = -6$
c. $x = -2$ d. $x = -3$

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

There is a horizontal asymptote at

- a. $y = 2$ b. $y = -6$
c. $y = -2$ d. $y = -3$

$$f(x) = \frac{x^2 + 6x + 8}{x + 5}$$

There is an oblique asymptote

a: $y = x + 1$

c: $y = x - 2$

b: $y = x - 1$

d: $y = x + 2$

Identify the values of a , h , and k of the function for the graph

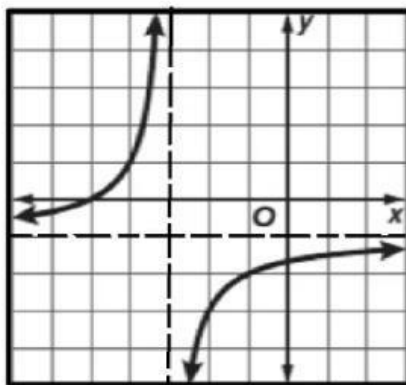
$$g(x) = \frac{a}{x - h} + k$$

a) $f(x) = \frac{2}{x - 3} - 1$

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

c) $f(x) = \frac{-2}{x - 3} - 1$

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



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

and find its point of discontinuity.

a: (8 , 3)

b: (3 , 8)

c: (3 , 15)

d: (15 , 3)