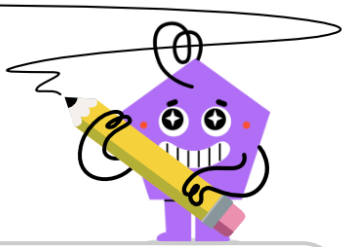
Name

Rational Functions and Asymptotes - Calculate Single Vertical Asymptote (Expanded)



1

What is the vertical asymptote of this rational function? $f(x) = \dfrac{x^2 - 6x + 8}{x + 1}$

A Vertical asymptote at $x = 4$

B Vertical asymptote at $x = 1$

C Vertical asymptote at $x = 2$

D Vertical asymptote at $x = -1$

2

What is the vertical asymptote of this rational function? $f(x) = \dfrac{x + 4}{x}$

A Vertical asymptote at $x = 2$

B Vertical asymptote at $x = -4$

C Vertical asymptote at $x = 0$

D Vertical asymptote at $x = 4$

3

What is the vertical asymptote of this rational function? $f(x) = \dfrac{x - 4}{x + 1}$

A Vertical asymptote at $x = 1$

B Vertical asymptote at $x = -1$

C Vertical asymptote at $x = -4$

D Vertical asymptote at $x = 4$

4

What is the vertical asymptote of this rational function? $f(x) = \dfrac{x + 3}{x + 2}$

A Vertical asymptote at $x = 2$

B Vertical asymptote at $x = -2$

C Vertical asymptote at $x = -3$

D Vertical asymptote at $x = 3$

5

What is the vertical asymptote of this rational function? $f(x) = \dfrac{x}{x - 4}$

A Vertical asymptote at $x = 0$

B Vertical asymptote at $x = -4$

C Vertical asymptote at $x = -2$

D Vertical asymptote at $x = 4$

6

What is the vertical asymptote of this rational function? $f(x) = \dfrac{x + 2}{x - 1}$

A Vertical asymptote at $x = 1$

B Vertical asymptote at $x = -1$

C Vertical asymptote at $x = 2$

D Vertical asymptote at $x = -2$

7

What is the vertical asymptote of this rational function? $f(x) = \dfrac{x^2 + x - 2}{x - 2}$

A Vertical asymptote at $x = 1$

B Vertical asymptote at $x = 2$

C Vertical asymptote at $x = -1$

D Vertical asymptote at $x = -2$

8

What is the vertical asymptote of this rational function? $f(x) = \dfrac{x^2 + 2x}{x - 1}$

A Vertical asymptote at $x = 0$

B Vertical asymptote at $x = 1$

C Vertical asymptote at $x = -1$

D Vertical asymptote at $x = -2$