Name

Rational Functions and Asymptotes - Calculate Double Vertical Asymptotes (Factored)

1

What are the vertical asymptotes of this rational function? $f(x) = \dfrac{(x+4)x(x-4)}{(x+3)(x-2)}$

A Vertical asymptotes at $x = -3,\ x = 2$

B Vertical asymptote at $x = -4$

C Vertical asymptote at $x = 4$

D Vertical asymptote at $x = 0$

2

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

A Vertical asymptote at $x = -1$

B Vertical asymptote at $x = 2$

C Vertical asymptote at $x = 1$

D Vertical asymptotes at $x = -2,\ x = 0$

3

What are the vertical asymptotes of this rational function? $f(x) = \dfrac{(x-3)}{(x+1)(x-1)}$

A Vertical asymptote at $x = 3$

B Vertical asymptotes at $x = -1,\ x = 1$

C Vertical asymptotes at $x = 1,\ x = 1$

D Vertical asymptote at $x = -3$

4

What are the vertical asymptotes of this rational function? $f(x) = \dfrac{(x-2)}{(x+3)(x-4)}$

A Vertical asymptote at $x = -2$

B Vertical asymptotes at $x = -4,\ x = 3$

C Vertical asymptote at $x = 2$

D Vertical asymptotes at $x = -3,\ x = 4$

5

What are the vertical asymptotes of this rational function? $f(x) = \dfrac{(x-1)}{(x+4)(x-3)}$

A Vertical asymptotes at $x = -4,\ x = 3$

B Vertical asymptote at $x = -1$

C Vertical asymptote at $x = 1$

D Vertical asymptotes at $x = -3,\ x = 4$

6

What are the vertical asymptotes of this rational function? $f(x) = \dfrac{(x+2)(x+1)}{(x+3)(x-3)}$

A Vertical asymptotes at $x = -3,\ x = 3$

B Vertical asymptote at $x = 2$

C Vertical asymptote at $x = -1$

D Vertical asymptote at $x = -2$

7

What are the vertical asymptotes of this rational function? $f(x) = \dfrac{(x+4)x(x-1)}{(x+3)(x-4)}$

A Vertical asymptote at $x = -4$

B Vertical asymptote at $x = 4$

C Vertical asymptotes at $x = -3,\ x = 4$

D Vertical asymptote at $x = 0$

8

What are the vertical asymptotes of this rational function? $f(x) = \dfrac{(x+4)x}{(x-2)(x-4)}$

A Vertical asymptote at $x = 0$

B Vertical asymptote at $x = -4$

C Vertical asymptotes at $x = 2,\ x = 4$

D Vertical asymptote at $x = 4$