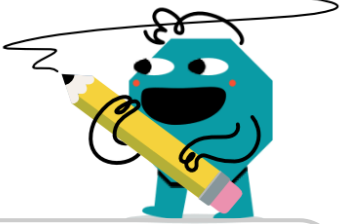
Name

Rational Functions and Asymptotes - Locate Holes (Factored)



1 Where are the holes when this polynomial is divided by this binomial?

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

A	$x = -3,\ x = -1$	B	$x = 1,\ x = 3$
C	$x = 0$	D	No holes

2 Where are the holes when this polynomial is divided by this binomial?

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

A	$x = 4$	B	$x = -4$
C	$x = -2$	D	No holes

3 Where are the holes when this polynomial is divided by this binomial?

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

A	$x = -1$	B	$x = 1$
C	$x = -1,\ x = 1$	D	No holes

4 Where are the holes when this polynomial is divided by this binomial?

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

A	B	C	D
$x = 0$	$x = -3$	$x = -4$	$x = 3$

5 Where are the holes when this polynomial is divided by this binomial?

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

A	$x = 3$	B	$x = 0$
C	$x = -3$	D	No holes

6 Where are the holes when this polynomial is divided by this binomial?

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

A	$x = 1$	B	$x = -2$
C	$x = -1$	D	No holes

7 Where are the holes when this polynomial is divided by this binomial?

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

A	No holes	B	$x = -1$
C	$x = 2$	D	$x = 1$

8 Where are the holes when this polynomial is divided by this binomial?

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

A	No holes	B	$x = 1$
C	$x = 0,\ x = 4$	D	$x = -4,\ x = 0$