

Analyze each function and predict the location of any vertical asymptotes, horizontal asymptotes, holes, and the domain.

	$f(x) = \frac{2x-1}{x-7}$	$f(x) = \frac{x^2+5x}{x^2+7x+10}$	$f(x) = \frac{x^2-7x+12}{x^2-9}$	$f(x) = \frac{2x^2+5x-3}{x+3}$
Horizontal Asymptote				
Vertical Asymptote				
Holes				
Domain				

Match the equation of each rational function with the most appropriate graph. Explain your reasoning.

$$y = \frac{x+4}{x^2-3x-4}$$

$$y = \frac{x+4}{x^2+5x+4}$$

$$y = \frac{x^2+4x}{x+4}$$

A

B

C

