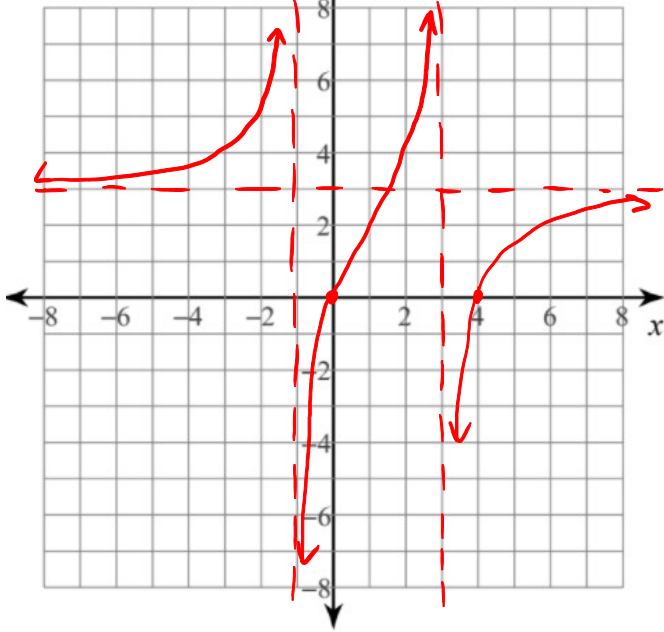


5.7 More Graphing Rational Functions

Directions 1-2: Identify the points of discontinuity, holes, vertical asymptotes, and horizontal asymptotes of each. Then sketch the graph.

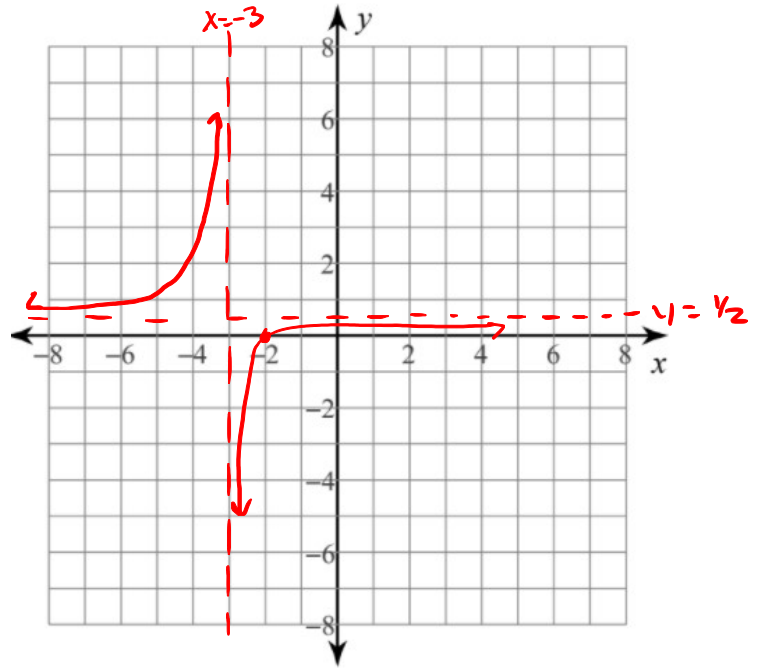
$$1. f(x) = \frac{3x^2 - 12x}{x^2 - 2x - 3} = \frac{3x(x-4)}{(x-3)(x+1)}$$

HA: $y=3$ VA: $x=3, x=-1$



$$2. f(x) = \frac{x+2}{2x+6} = \frac{(x+2)}{2(x+3)}$$

VA: $x=-3$
HA: $y=1/2$



Directions 3-5: Choose the best answer choice for each problem below.

3. Which value of x will make the fraction $\frac{x-3}{x+6}$ undefined?

A. 6 B. -6 C. 3 D. -3

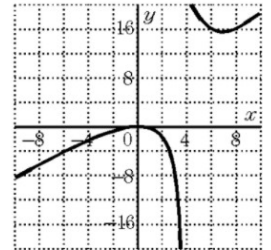
4. Which of the following is the equation of an asymptote for the function graphed?

A. $x = -4$

B. $y = 0$

C. $x = 4$

D. $y = 16$



5. Which of the following represents the graph of $y = \frac{x^2}{x-2}$?

