"wome ant)

Consider the graph of this rational function:

$$f(x) = \frac{3x^2 + 2}{x^2 + 4x - 5}$$

 $f(x) = \frac{3x^2 + 2}{x^2 + 4x - 5}$ (X+5)(X-1)=0

Find

The x-intercepts, if they exist. Write them as ordered pairs (x, y)

NO X-INTrocopis 32+2=0 X==

Consider the vertical asymptotes. Write them as equations of vertical lines

X= C X=1

Does this function have a horizontal asymptote? What is it? Write as the equation of a horizontal

line.

Find the y-intercept. Write as an ordered pair (x, y)

(0,-3,)

Make a sketch of this rational function

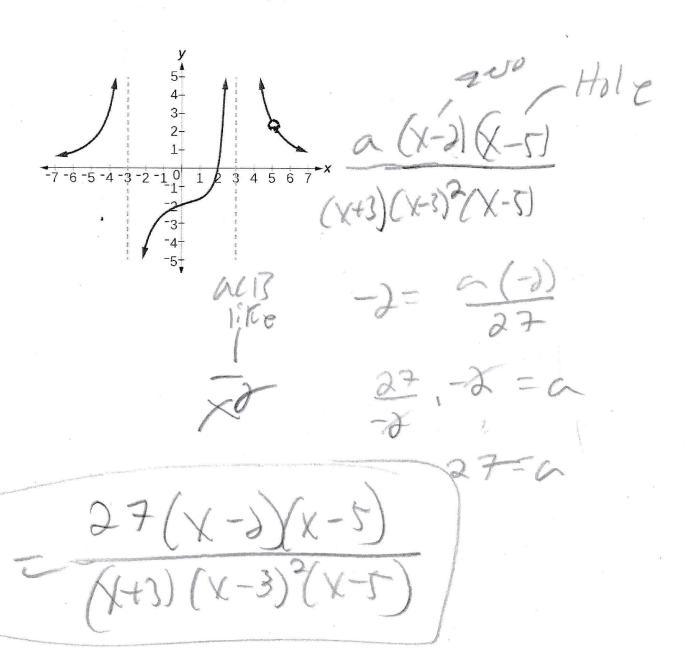
Write a rational function that has these characteristics:

Vertical asymptotes at x=-4 and x=-5, x-intercepts at (4,0) and (-6,0) , Horizontal asymptote at y=7

y - i

2 = 7(X-4)(X+6)

Write a rational function that has this graph



Consider the graph of this rational function:

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

Hole &

Find

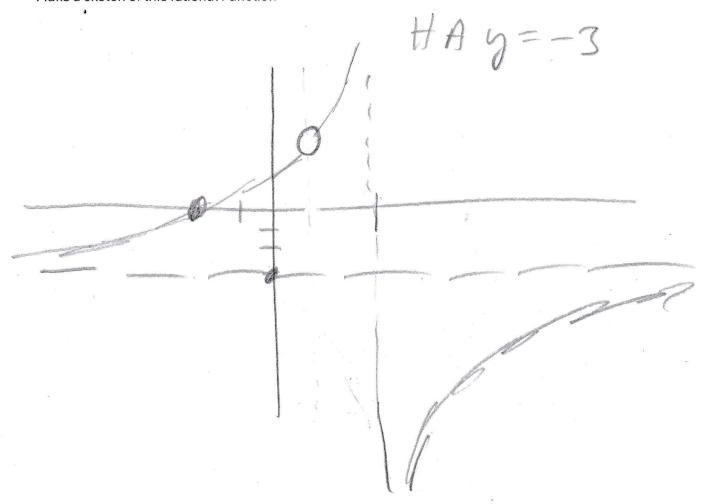
The x-intercepts. Write them as ordered pairs (x, y)

Consider the vertical asymptotes. Write them as equations of vertical lines

Find the y-intercept. Write them as ordered pairs (x, y)

$$-3(3)_{5}(-1)$$

$$-\frac{12}{4}$$
 - 3 (0, -3)



3 pbl root -32 (X-3 3/X+3)(X-2)2 (X-4)