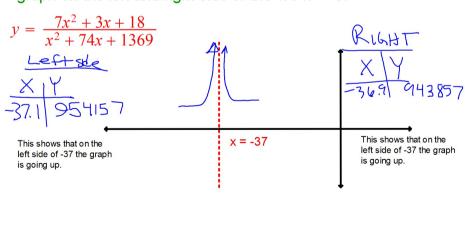


Use the Table function to sketch the behavior of the graph on the left and right side of the VA x = -37



Use the Table function to sketch the End Behavior of this function whose HA is y = 31 $y = \frac{62x^2 + 6x - 1}{2x^2 - 5}$ This shows that at the far right the graph is just above the HA y = 31

What are the vertical asymptotes?

$$y = \frac{x(2x+1)}{(x-1)(x+4)}$$

$$VA: x = 1$$

$$VA: x = -4$$

VA: x = 1 VA: x = -4 what does the graph do on the left and right of each VA?

what does the graph do on the left and right						
x	у	x	У			
Left Side	-5.143 NEG	Left Side	561.88 POS			
Right Side /- ਹ(60.882 POS	Right Side	-54.12 NEG			

On the left side the graph

decreases w/o bound

On the right side the graph increases w/o bound

$$VA: x = -4$$

On the left side the graph increases w/o bound

On the right side the graph

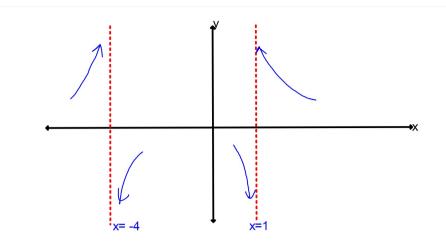
decreases w/o bound

$$y = \frac{x(2x+1)}{(x-1)(x+4)}$$

$$\sqrt{A}$$
: x = -4

VA: x = 1Replace each x with a number and write down if each factor is POS or NEG. Use this to decide if the entire function is POS or NEG. A POS result means the graph goes UP and a NEG result means the graph goes DOWN.

g. ap g. c c j	p. and a 112 o 100 an 1110 and and graph good 4 o 1111				
х	У	X	У		
Left Side	++====================================	Left Side	=======================================	=(+)	
Right Side	1	Right Side	= -	90MV	



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

What is the HA? y = 2

How does the graph behave at the Right End?

Less than 2 means the graph is below the HA at the far right.

How does the graph behave at the Left End?

Greater than 2 means the graph is above the HA at the far left.

