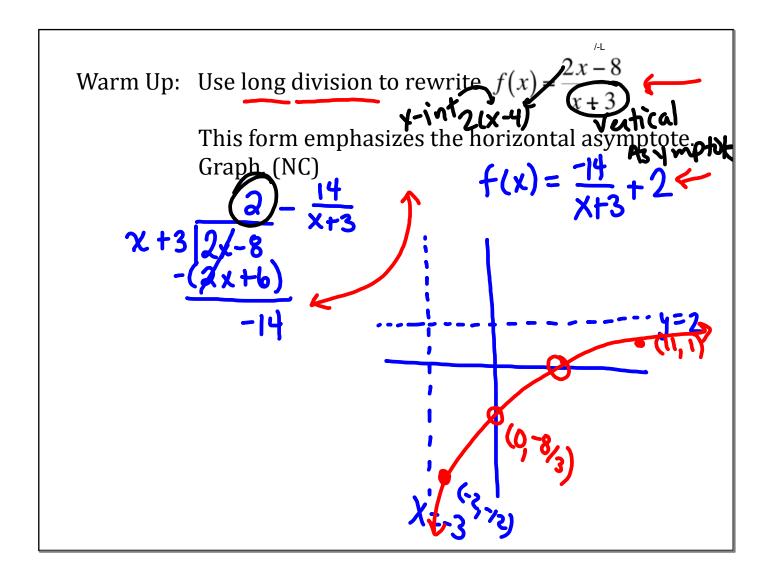
HAT Graphing Rational Functions

1/19/18

AMC American Mathematics Contest

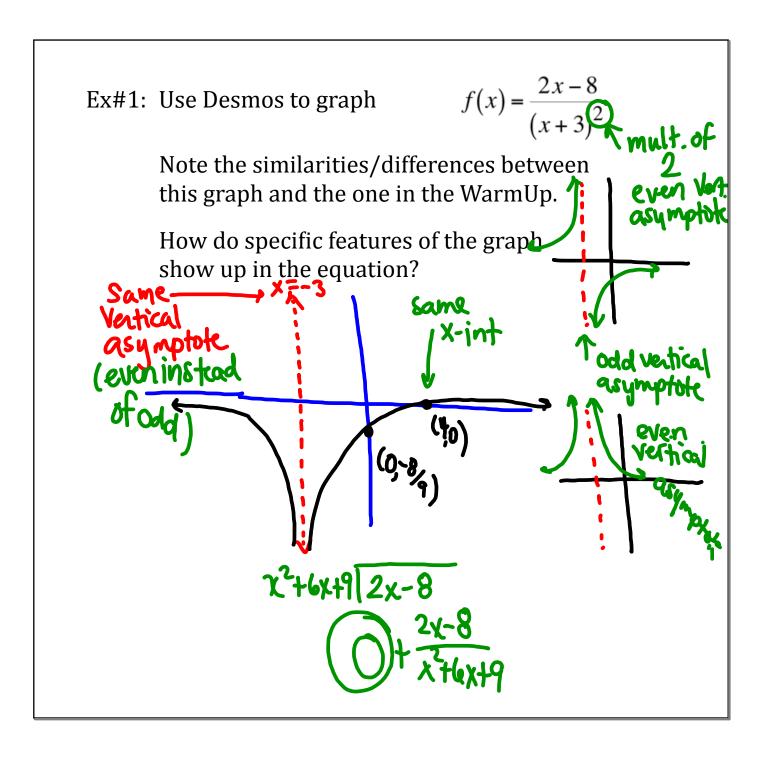
February 7, 2018 (Wednesday) Periods 1 - 3 Auditorium

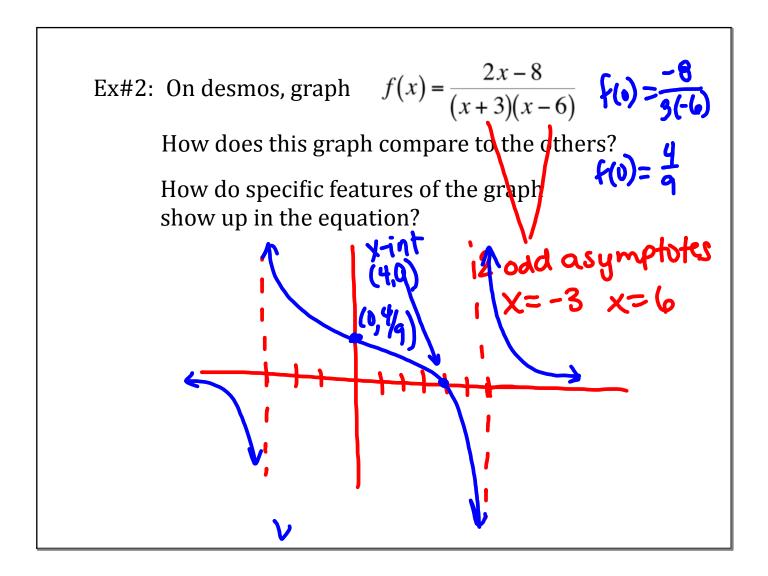
All HAT students are expected to participate.

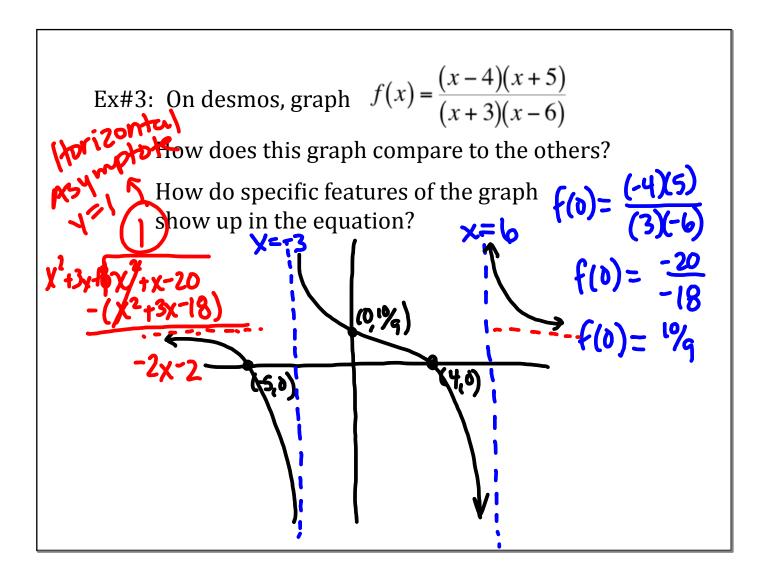


Go Grab a Chromebook and go to Desmos.com

We are going to be looking at some graphs today!







Ex#4: On desmos, graph
$$f(x) = \frac{(x-4)(x+5)}{(x+3)^2(x-6)}$$

How does this graph compare to the others?

How do specific features of the graph show up in the equation?

$$\chi$$
-int: (4,0) (-5,0)
Vertical Asymptotes:
 $\chi=-3$
 $\chi=6$

Ex#5: On desmos, graph $f(x) = \frac{(x-4)(x+5)^2}{(x+3)^2(x-6)}$

How does this graph compare to the others?

How do specific features of the graph show up in the equation?

