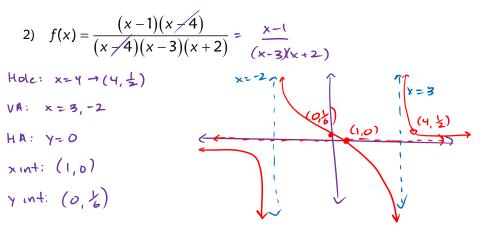
MORE RATIONAL FUNCTIONS

GOING THROUGH THE HORIZONTAL ASYMPTOTE

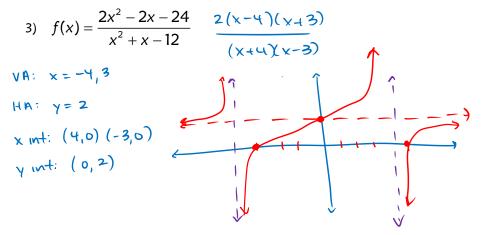
1)
$$f(x) = \frac{3x+1}{x^2+x-2} = \frac{3x+1}{(x+2)(x-1)}$$

VA: $x = -2, 1$
HA: $y = 0$
x int: $(-\frac{1}{3}, 0)$
y int: $(0, -\frac{1}{2})$

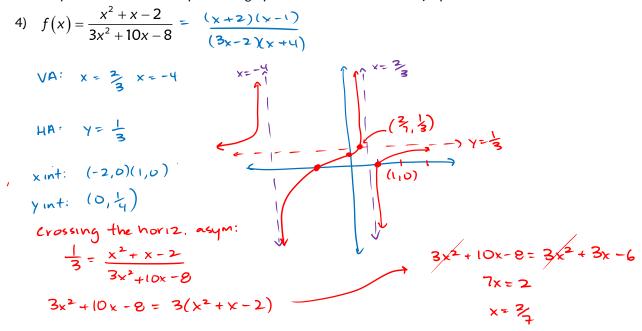
HORIZONTAL ASYMPTOTES: Long run behavior of function







Graph and show at what point the graph crosses the horizontal asymptote.



TRY NUMBERS 5 - 8 ON YOUR OWN AND CHECK WITH THE KEY! I'LL GO OVER THESE WITH YOU TOMORROW IF YOU STILL HAVE QUESTIONS.

(5 AND 6 SHOULD CROSS THE HORIZONTAL ASYMPTOTE!)

