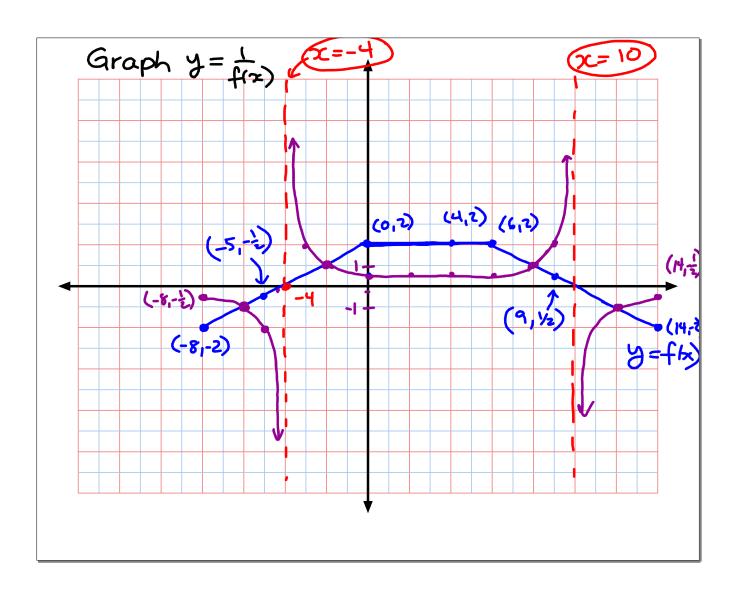
Graphing Reciprocal functions: (1) · Asymptotes - are lines that we sketch in to help us find the shape of the curve. · They are <u>NOT</u> part of the graph which is why we always make them dotted . The curve will approach an asymptote but never touch or cross it. * Draw in the asymptotes, first! They occur wherever the original function crosses the x-axis (y=0) 7 y=x+1 The reciproral fr: $y = \frac{1}{z+1} \Rightarrow x \neq -1$ y = (x+3)(x-5) =(X+3)(X-5) x = -3, 5asymptots. * Put on any Invariant points (a point on the original curve AND the reciprocal), or when y=1 or-1 * Plot enough points to get the shape of the curve by FLIPP FLIPPING the y-value. RELIPROCAL 0219 $(1,7) \longrightarrow (1,1/7)$ (3,100) -Big #'s become tiny (7, lopo) --> (7.1000) Tiny #'s become big!



- 1) Worksheet 2) 7.4 pg. 403-405 #1,2,3,6 #7bc # 8a 94