13. $y = \frac{(x-4)}{(x+3)}$

X-INT

$0 = \frac{x-4}{x+3}$

$0 = x-4$

$4 = x$ X-INT

Y-INT

$y = \frac{0-4}{0+3}$

$y = -\frac{4}{3}$

$y = -1\frac{1}{3}$

VA

$x+3=0$

$x=-3$ VA

HA

$y = \frac{1}{1}$

$y=1$ HA

$y = \frac{x-4}{x+3}$ $\quad P \quad P'=1$

$\quad\quad\;\; Q \quad Q'=1$

$$\frac{P'Q-PQ'}{Q^2}$$

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

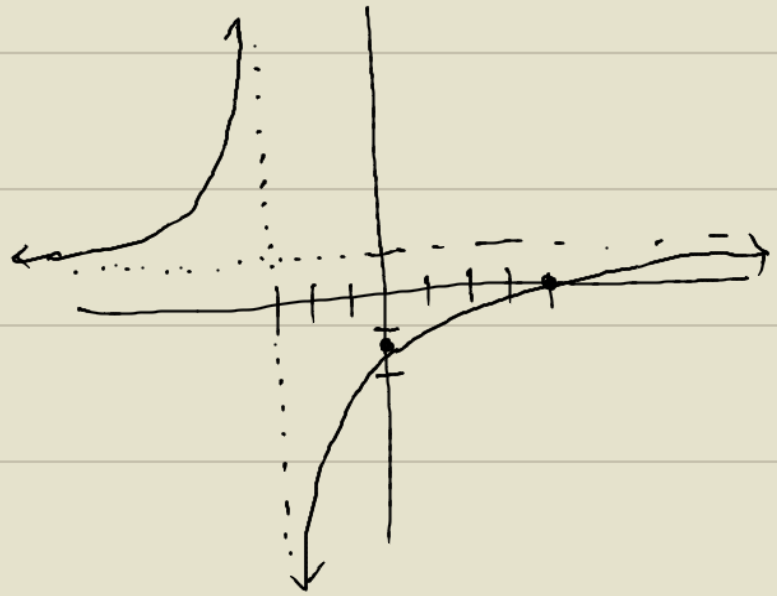
$$y' = \frac{x+3-x+4}{(x+3)^2}$$

$$y' = \frac{7}{(x+3)^2}$$

$7=0 \quad (x+3)^2=0$

$x+3=0$

$x=-3$



INC $(-\infty, -3)$

INC $(-3, \infty)$

$x=-3$

$-\infty$		∞
$x=-4$	$x=0$	TEST CASES
$\frac{7}{(x+3)^2}$	$\frac{7}{(x+3)^2}$	PLUG INTO y'
$\searrow$	$\searrow$	