

15. $y = \frac{x^2 - 4}{x + 1}$

$x = \text{int}$
 $0 = \frac{x^2 - 4}{x + 1}$
 $0 = x^2 - 4$
 $4 = x^2$
 $\pm\sqrt{4} = x$
 $\pm 2 = x$

$y = \text{int}$
 $y = \frac{0^2 - 4}{0 + 1}$
 $y = -4$
 $y = -4$

VA.
 $x + 1 = 0$
 $x = -1$
 VA

HA
 NONE

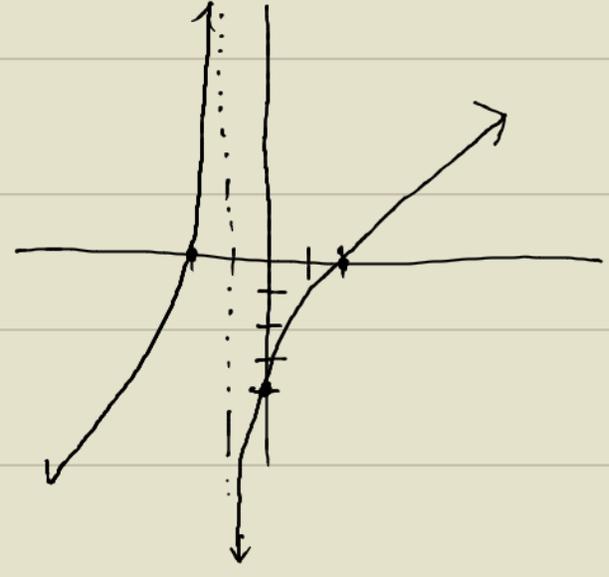
$y = \frac{(x^2 - 4)}{(x + 1)}$ p $p' = 2x$
 q $q' = 1$

$\frac{p'q - pq'}{q^2}$

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

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

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



$x^2 + 2x + 4 = 0$ $(x + 1)^2 = 0$
 $x + 1 = 0$
 $x = -1$

$x = -1$	
-∞	∞
$x = -2$	$x = 0$
$\frac{x^2 + 2x + 4}{(x + 1)^2}$	$\frac{x^2 + 2x + 4}{(x + 1)^2}$
$\frac{(-2)^2 + 2(-2) + 4}{+}$	$\frac{0^2 + 2(0) + 4}{+}$
+	+
✓	✓