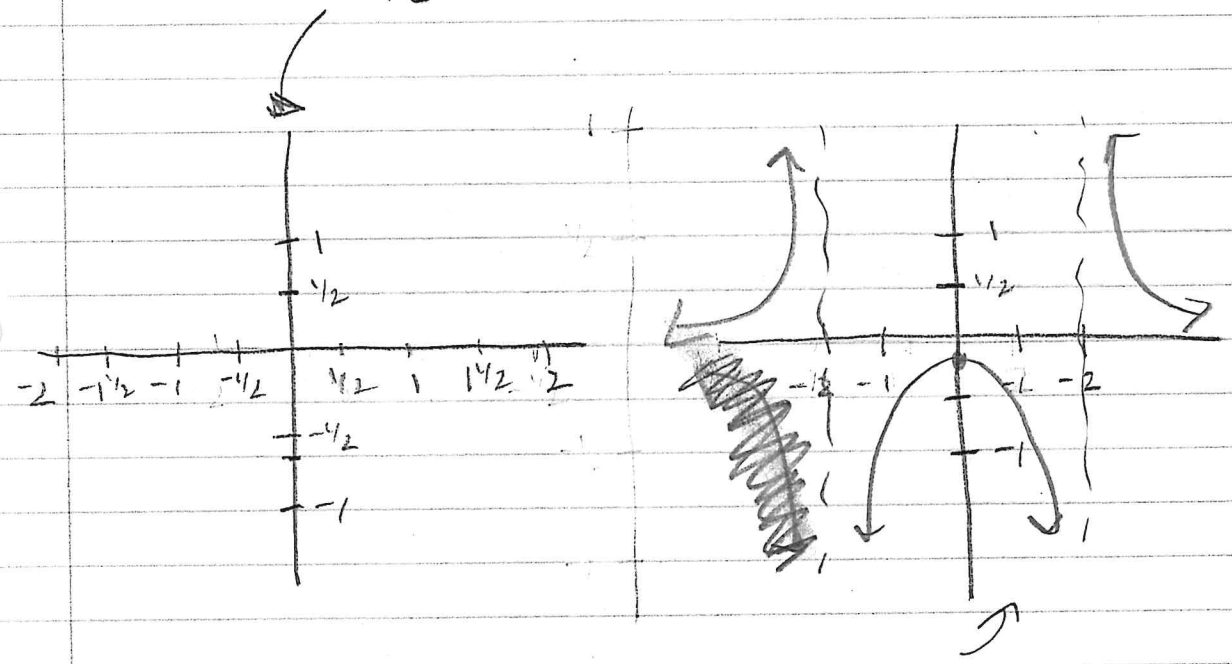
HA $y=0$ NO VA

$f''(x)$	$-$	$f''(-\sqrt{3})=0$	$+$	$+$	$f''(0)=0$	$-$	$-$	$f''(\sqrt{3})=0$	$+$
$f'(x)$	$-$		$-$	$f'(-1)=0$	$+$	$+$	$f'(1)=0$	$-$	$-$
$f(x)$		$-\frac{\sqrt{3}}{4}$		$-1/2$		0		$1/2$	$\sqrt{3}/4$

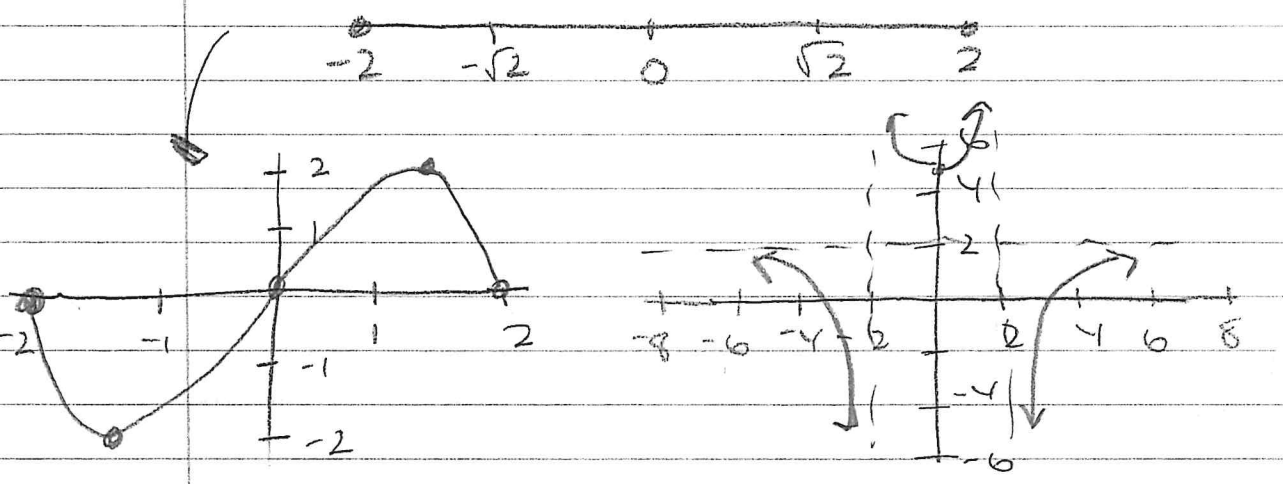


$f''(x)$	$+$		$-$		$-$		$+$		
$f'(x)$	$+$		$+$	$f'(0)=0$	$-$		$-$		
$f(x)$		und		$-1/4$		und			

HA $y=1$ VA $x=\pm 2$

D: $-2 \leq x \leq 2$ no HA or VA

$f''(x)$	+		+	$f''(0)=0$	−		−	
$f'(x)$	−	$f'(-\sqrt{2})=0$	+		+	$f'(\sqrt{2})=0$	−	
$f(x)$	∩	-2	∩		2	∩		



$f(x) = \frac{2x^2-18}{x^2-4}$ $f'(x) = \frac{20x}{(x^2-4)^2}$ $f''(x) = \frac{-60x^2-80}{(x^2-4)^3}$

HA $y=2$ VA $x=\pm 2$ local min $(0, 9/2)$ no inflection pts

$f''(x)$	−	und	+		+	und	−	
$f'(x)$	−		−	$f'(0)=0$	+		+	
$f(x)$	∩	und	∩	$9/2$	∪	und	∪	

-2 0 2