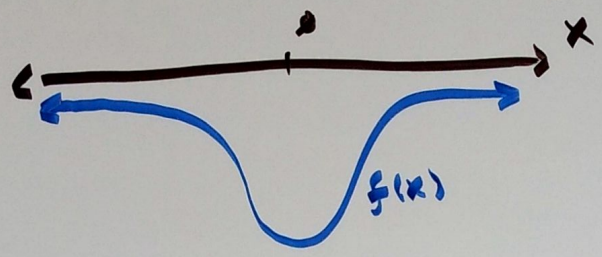
3/d

$$f(x) = \sqrt{x^2+1} - \sqrt{x^2+4}$$



CANCELLATION OCCURS @ LARGE POSITIVE & NEGATIVE x

FIRST WRITE $f(x)^2$ AS

$$f(x)^2 = x^2+1 - 2\sqrt{(x^2+1)(x^2+4)} + x^2 - 4$$

$$= 2x^2 + 5 - 2\sqrt{x^4+5x^2+4}$$

NOW COMPUTE IN THIS FORM

THEN COMPUTE THE SQUARE ROOT OF THAT VALUE