3

d CANCELLATION AT LARGE $\pm x$

FIRST, COMPUTE,

$$f(x)^2 = 2x^2 + 5 - 2\sqrt{x^4 + 5x^3 + 4}$$

THEN COMPUTE

$$f(x) = \sqrt{f(x)^2}$$

e CANCELLATION NEAR

$$x = n\frac{\pi}{2}, \quad n = 1, 2, 3, \ldots$$

USE TRIG. ID:

$$1 - 2\sin^2 x = 1 - (1 - \cos 2x)$$

$$= \cos 2x$$

3

f

CANCELLATION NEAR

$x = 0$

FOR

$x < 0$

COMPUTE AS

$$f(x) = \sinh^{-1}(x)$$