Functions #5

Today Quiz

1. If $f(1-x) + (1-x)f(x) = a$, then find $f(4)$ in terms of the constant a

2. Given that $f(ax) = af(x)$ for all real numbers a and $f(\eta) = \phi$ find $f(\pi)$

3. If $f(x) = x^2 + x - 1$ for $x \geq -2$ and $g(x) = x^2 - 1$ for $x < 5$ then what is the domain and range of $f \circ g$?

This weekend's Homework

• Parent Function Project
• In your textbook, read sections 3.3 and 3.4
• Complete Page 239-241 #1,2,3,4,13,14,15,16, 38, 39
• Complete Page 250 #11-18

Extra Credit (+10 for next week's test for a complete solution)

If $f(n+1) = (-1)^{n+1}(n-2)f(n)$ for all integers greater than 0 and $f(1) = f(1986)$, compute $f(1) + f(2) + f(3) + \ldots + f(1985)$