DC FELLOWS PROGRAM
MATH IMMERSION SUMMER COURSE

PROOF PRACTICE
JUNE 9, 2008

(1) If r_1 and r_2 are roots of the polynomial $f(x) = x^2 + bx + c$, then $r_1 + r_2 = -b$ and $r_1 r_2 = c$.

(2) If $f(x)$ and $g(x)$ are functions having all real numbers as their domains, then the domain of their composition $f(g(x))$ is all real numbers.