NAME (Print!): ______ Check one: (1pm): _____ (2pm): _____ Quiz 1

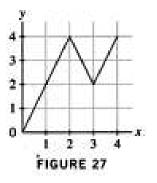
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Problem 1, 3 points: Express the set

$$\left\{x:\frac{x}{x+1}<0\right\}$$

as an interval. Show all you work.

Problem 2, 4 points: For which values of c does $x^2 + cx + 1$ have a double root? No real roots? Show your work.



Problem 3, 3 Points: The pictured graph is of y = f(x). On coördinate axes you draw yourself, graph the following (show your work or at least your thought process):
(a) f(¹/₂x)

(b) -f(-x)

(c) f(x+2)