

Math 162

Quiz 1

Show all work in a neat and organized fashion. Clearly indicate your answers.
10 points possible.

1. (5 pts.) The plot below depicts a certain girl's height plotted according to her age.

(a) What are the units along the vertical axis?

(b) Approximately how much did she grow during the first year?

(c) Did the girl grow faster during her first 3 years or during the last 3 years before she attained her full height?

2. (5 pts.) For each rule, (1) draw an input/output diagram, (2) determine whether the rule is a function, and (3) if the rule is a function, state the set of inputs and the set of outputs for the function.

(a) $B(t)$ = the amount in an investment account (in dollars) after t years, assuming that no deposits or withdrawals are made during the t years

(b) $A(t)$ = the amount in an investment account (in dollars) after t years, assuming that deposits and withdrawals are permissible

Bonus. (1 optional bonus point possible) Effective July 1, 2001, what is the rate for a domestic first-class letter weighing more than 1 ounce but less than 2 ounces?