

New Jersey City University
Intermediate Algebra
Peer Led Team Learning Workshop 3B
Functions

Section 3.5

- 1) The rules below describe relationships from everyday life. Determine which rules are functions. If the rule is not a function, explain why.
- A) People assigned to their ages
 - B) Biological mother assigned to her child
 - C) Child assigned to biological mother
 - D) Vehicle assigned to vehicle identification number
 - E) Birthday assigned to person
 - F) Each person assigned to a person who is older
 - G) Third grader assigned to favorite color

Section 3.5

- 2) Give an example of a function from everyday life and explain why your example is a function. Use the format in exercise 1 above; i.e., _____ assigned to _____.

Sections 3.5 and 3.6

- 3) As a store manager, Rosa receives \$35 an hour.
- (A) Write a function that describes Rosa's wages. Use x to represent the number of hours Rosa works.
 - (B) If Rosa can work no more than 35 hours per week, determine the domain of the function in (A).
 - (C) Graph this equation over the indicated domain.
 - (D) The ordered pair $(21, 735)$ is on the graph. Write a sentence that describes the meaning of this ordered pair.

Section 3.5

- 4) A microcomputer company's profit in dollars is given by the equation $P(x) = 140x - 2000$, where x is the number of microcomputers sold each day.
- (A) What is the slope of the equation $P(x) = 140x - 2000$? Interpret your answer.
 - (B) How many microcomputers must be sold each day for the company to make a profit?