
CHAPTER 1: SECTION CONCEPT CHECK

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End of Section Exercise Solutions..... 1

END OF SECTION EXERCISE SOLUTIONS

1.CV.1

(a) A function f is a rule that assigns to each element x in a set D (the domain) exactly one element, called $f(x)$, in a set E . The set of inputs for the function, D , is the domain. The range of f is the set of all possible values of $f(x)$ as x varies throughout the domain.

(b) To obtain the graph of the function f , plot the ordered pairs of points, $(x, f(x))$.

(c) A curve is the graph of a function if it passes the Vertical Line Test – that is, if no vertical line intersects the curve more than once.

1.CV.2

There are four ways to represent a function:

- Verbally: $C(w)$ is the cost of mailing a large envelope of weight w .

w (ounces)	$C(w)$ (dollars)
$0 < w \leq 1$	0.98
$1 < w \leq 2$	1.19
$2 < w \leq 3$	1.40
$3 < w \leq 4$	1.61
$4 < w \leq 5$	1.82
\vdots	\vdots

- Numerically (with a table of values):

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Marco Casella

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