

For each of the following functions,

- (a) determine the input information;
  - (b) determine the output information;
  - (c) determine the input;
  - (d) determine the output;
  - (e) determine the input units;
  - (f) determine the output units;
  - (g) explain why negative input values are or are not meaningful for the function; and
  - (h) explain why negative output values are or are not meaningful for the function.
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1.  $W(t)$  is the number of hours that the Governor of Massachusetts works at the State House,  $t$  days after taking office.
  2.  $C(x)$  is the average cost, in dollars, to produce *The Boston Globe*,  $x$  years after 1980.
  3.  $B(x)$  is the average cost, in thousands of dollars, to excavate an  $x$ -foot deep trench at the site of "The Big Dig".
  4.  $R(x)$  is the revenue, in thousands of dollars, from the sale of printer cartridges at *Staples*,  $x$  years after 1990.
  5.  $D(t)$  is the United States deficit, in billions of dollars,  $t$  years after 1990.
  6.  $P(x)$  is the profit at the *Framingham State University Bookstore*,  $x$  days after the start of the semester.
  7.  $W(x)$  is your weight, in pounds, when your height is  $x$  inches.
  8.  $M(x)$  is the amount of money in your wallet,  $x$  hours after 8 AM on a particular day.
  9.  $G(x)$  is the average cost to fill a 20-gallon gas tank,  $x$  years after 1980.
  10.  $S(x)$  is the salary of the President of the United States of America,  $x$  years after 1900.
  11.  $C(x)$  is the cost, in dollars to produce  $x$  watts of electricity.
  12.  $M(x)$  is the cost, in dollars, for  $x$  hours of labor to repair a MacBook Pro laptop computer.