

1 □ FUNCTIONS AND MODELS

1.1 Four Ways to Represent a Function

1. The functions $f(x) = x + \sqrt{2-x}$ and $g(u) = u + \sqrt{2-u}$ give exactly the same output values for every input value, so f and g are equal.
2. $f(x) = \frac{x^2 - x}{x - 1} = \frac{x(x-1)}{x-1} = x$ for $x - 1 \neq 0$, so f and g [where $g(x) = x$] are not equal because $f(1)$ is undefined and $g(1) = 1$.
3. (a) The point $(-2, 2)$ lies on the graph of g , so $g(-2) = 2$. Similarly, $g(0) = -2$, $g(2) = 1$, and $g(3) \approx 2.5$.
(b) Only the point $(-4, 3)$ on the graph has a y -value of 3, so the only value of x for which $g(x) = 3$ is -4 .
(c) The function outputs $g(x)$ are never greater than 3, so $g(x) \leq 3$ for the entire domain of the function. Thus, $g(x) \leq 3$ for $-4 \leq x \leq 4$ (or, equivalently, on the interval $[-4, 4]$).
(d) The domain consists of all x -values on the graph of g : $\{x \mid -4 \leq x \leq 4\} = [-4, 4]$. The range of g consists of all the y -values on the graph of g : $\{y \mid -2 \leq y \leq 3\} = [-2, 3]$.
(e) For any $x_1 < x_2$ in the interval $[0, 2]$, we have $g(x_1) < g(x_2)$. [The graph rises from $(0, -2)$ to $(2, 1)$.] Thus, $g(x)$ is increasing on $[0, 2]$.
4. (a) From the graph, we have $f(-4) = -2$ and $g(3) = 4$.
(b) Since $f(-3) = -1$ and $g(-3) = 2$, or by observing that the graph of g is above the graph of f at $x = -3$, $g(-3)$ is larger than $f(-3)$.
(c) The graphs of f and g intersect at $x = -2$ and $x = 2$, so $f(x) = g(x)$ at these two values of x .
(d) The graph of f lies below or on the graph of g for $-4 \leq x \leq -2$ and for $2 \leq x \leq 3$. Thus, the intervals on which $f(x) \leq g(x)$ are $[-4, -2]$ and $[2, 3]$.
(e) $f(x) = -1$ is equivalent to $y = -1$, and the points on the graph of f with y -values of -1 are $(-3, -1)$ and $(4, -1)$, so the solution of the equation $f(x) = -1$ is $x = -3$ or $x = 4$.
(f) For any $x_1 < x_2$ in the interval $[-4, 0]$, we have $g(x_1) > g(x_2)$. Thus, $g(x)$ is decreasing on $[-4, 0]$.
(g) The domain of f is $\{x \mid -4 \leq x \leq 4\} = [-4, 4]$. The range of f is $\{y \mid -2 \leq y \leq 3\} = [-2, 3]$.
(h) The domain of g is $\{x \mid -4 \leq x \leq 3\} = [-4, 3]$. Estimating the lowest point of the graph of g as having coordinates $(0, 0.5)$, the range of g is approximately $\{y \mid 0.5 \leq y \leq 4\} = [0.5, 4]$.
5. From Figure 1 in the text, the lowest point occurs at about $(t, a) = (12, -85)$. The highest point occurs at about $(17, 115)$. Thus, the range of the vertical ground acceleration is $-85 \leq a \leq 115$. Written in interval notation, the range is $[-85, 115]$.

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