

4-3 Writing Functions

Lesson Quiz

Identify the independent and dependent variables. Write a rule in function notation for each situation.

1. A buffet charges \$8.95 per person.
2. A moving company charges \$130 for weekly truck rental plus \$1.50 per mile.

Evaluate each function for the given input values.

3. For $g(t) = \frac{1}{4}t - 3$, find $g(t)$ when $t = 20$ and when $t = -12$.
4. For $f(x) = 6x - 1$, find $f(x)$ when $x = 3.5$ and when $x = -5$.

Write a function to describe the situation. Find a reasonable domain and range for the function.

5. A theater can be rented for exactly 2, 3, or 4 hours. The cost is a \$100 deposit plus \$200 per hour.