Name	Period	Date
Constructing Fun	nctions from Grap	<b>hs</b> (page 1)
For each problem, determine the rate of c rate of change and initial value in term of	C	* *
1. The amount of water in a pool being figraph. The filling of the pool is at a co		the y
Rate of change:		14 12 12 12 10
Interpretation:		Water (gallons)  8  9  6  4
Initial value:		W ate
Interpretation:		2 4 6 8 10 12
Function:		Time (min)
2. An arcade sells tokens, issuing them for However, as part of an anniversary cell free tokens on that day. The graph sho customers received for each dollar sperage Rate of change:	ebration, the arcade ga ow the number of token	
Interpretation		Z 10

Interpretation:

Initial value:

Interpretation:

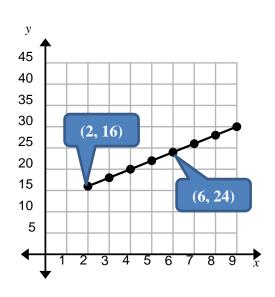
Function:

3. The graph represents a linear function.

Rate of change:

Initial value:

Function:



Dollars Spent

## **Constructing Functions from Graphs** (page 2)

4. A car wash offers free points towards a free detail when you sign up for their rewards card. For each car wash purchased, you can also earn an additional number of points. The graph show the total points earned for several car washes.



Rate of change:

Interpretation:

Initial value:

Interpretation:

Function:

5. A golf driving range charges a fee for every bucket of golf balls you drive. There is a flat fee for renting golf clubs.

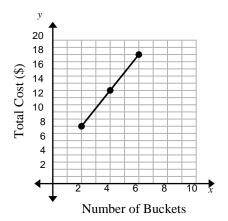
Rate of change:

Interpretation:

Initial value:

Interpretation:

Function:



6. A cash register deducts a specific amount for every medium coffee the customer buys. The graph represents the number of dollars left on the card after each medium coffee has been purchased. Assume that only medium coffees are purchased with this card.

Rate of change:

Interpretation:

Initial value:

Interpretation:

Function:

How many coffees will have been purchased when the card has a balance of \$0?

