SC Algebra 1
3.2b Functions (Day 2)

Warm Up:

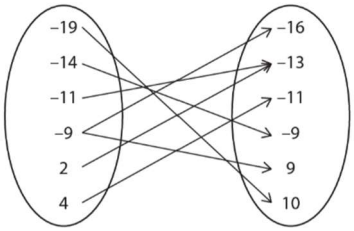
- **Determine whether the following relations are functions. Explain.**

a) {(-7, 4), (-8, 3), (-7, 7), (-20, 8), (5, 9), (3, 1), (2, 6)}

b)

x	y
2	15
3	12
6	–4
7	–1
18	–4
20	–8

c)



- **Evaluate, when $h = -2$.**

d) $5h - 2$

e) $3h^2 + 5h$

Example 1: Find Function Values

- For $f(x) = -2x + 9$, find each value.

a) $f(4) + 3$

b) $f(5) + f(1)$

- For $f(x) = -3x + 2$, find each value.

a) $f(-4)$

b) $f(5) + 8$

c) $f(3) - f(6)$

d) $f(0)$

Example 2: Evaluate Functions

- For $h(x) = -6x^2 + 18x + 36$, find each value.

a) $h(2)$

b) $h(4) - h(1)$

c) $h(5) - 7$

d) $h(0)$

- For $g(x) = 2x^2 + 8x - 10$, find each value.

a) $g(2)$

b) $g(5) + 12$

c) $g(8) - 18$

d) $g(-3) - g(4)$

Example 3: Interpret Function Values

Mason works at the movie theater after school. The function $g(x) = 9.25x$ represents the amount of money he makes before taxes for the hours he works. **Evaluate** and **interpret** the function at the following values:

a) $g(8)$

b) $g(14)$

c) $g(27.5)$