Practice 3.9.1: Interpreting Parameters

Identify the parameters in the following equations.

1. $f(x) = 7x + 5$

2. $f(x) = 2^x + 3$

3. $f(x) = -2x + 10$

4. $f(x) = 2(3^x)$

5. $f(x) = 3(2^x) + 5$

Use what you know about functions to complete problems 6–10.

6. You join a gym. The monthly membership fee is $10 and the rate per hour is $2. What is the function that represents this scenario? What are the parameters in this scenario?

7. Claire subscribes to a movie rental program. She pays a monthly fee of $5.00, plus $1.25 for each movie rented. What are the parameters in this scenario?

8. Max is picking apples with his brother. The number of apples in his bag is described by $f(x) = 18x + 15$, where x is the number of minutes Max spends picking apples. What do the numbers 18 and 15 tell you about Max's apple picking?

9. You have an ant farm. The number of ants in your colony is described by $f(x) = 10(2)^{\frac{x}{36}}$, where x is in hours. What do the numbers 10 and 2 tell you about the number of ants in your colony?

10. Anastasia hides $200 in her mattress and deposits $150 into an account that doubles every 10 years. What is the function that represents this scenario? What are the parameters?