Student Name:	Period:	

GSE Algebra 1 | Formative Assessment

- 1. Simplify. $5\sqrt{8}$
- 2. The first term in an arithmetic sequence is 5. The fourth term in the sequence is -4. The tenth term is -22. Identify a function, *f*, can be used to find the nth term of the arithmetic sequence.
- 3. What is P(x) Q(x)?

$$P(x) = x^2 - x - 6$$

$$Q(x) = x - 3$$

4. Solve the system of equations for both *x* and *y*. Show or explain how you found your answer in the space provided.

$$x - 3y = 1$$

$$x - 2y = 6$$

- 5. While riding on a carousel, Angela travels a distance of 65 meters every 15 seconds. What is her speed in kilometers per hour? Show or explain how you found your answer in the space provided.
- 6. The student council makes an initial investment in a savings account that earns interest. The value of the savings account after m months is determined by the function $v(m) = 2,000(1.005)^m$. The student council also has a checking account that has a value of m months that is determined by the function c(m) = 250 + 150m.

Part A: What is the interest rate of the savings account? Write your answer in the space provided.

When the student council has \$2,450 in its checking account, it will purchase new computers for the library.

Part B: After how many months will the student council purchase new computers for the library? Write your answer in the space provided.

Part C: How much money will be in the student council's savings account when they purchase new computers? Explain your reasoning. Write your answer in the space provided.

Question 1	
Question 2	
Question 3	
Question 4	
Question 5	
Q6 PA	
Q6 PB	
Q6 PC	

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