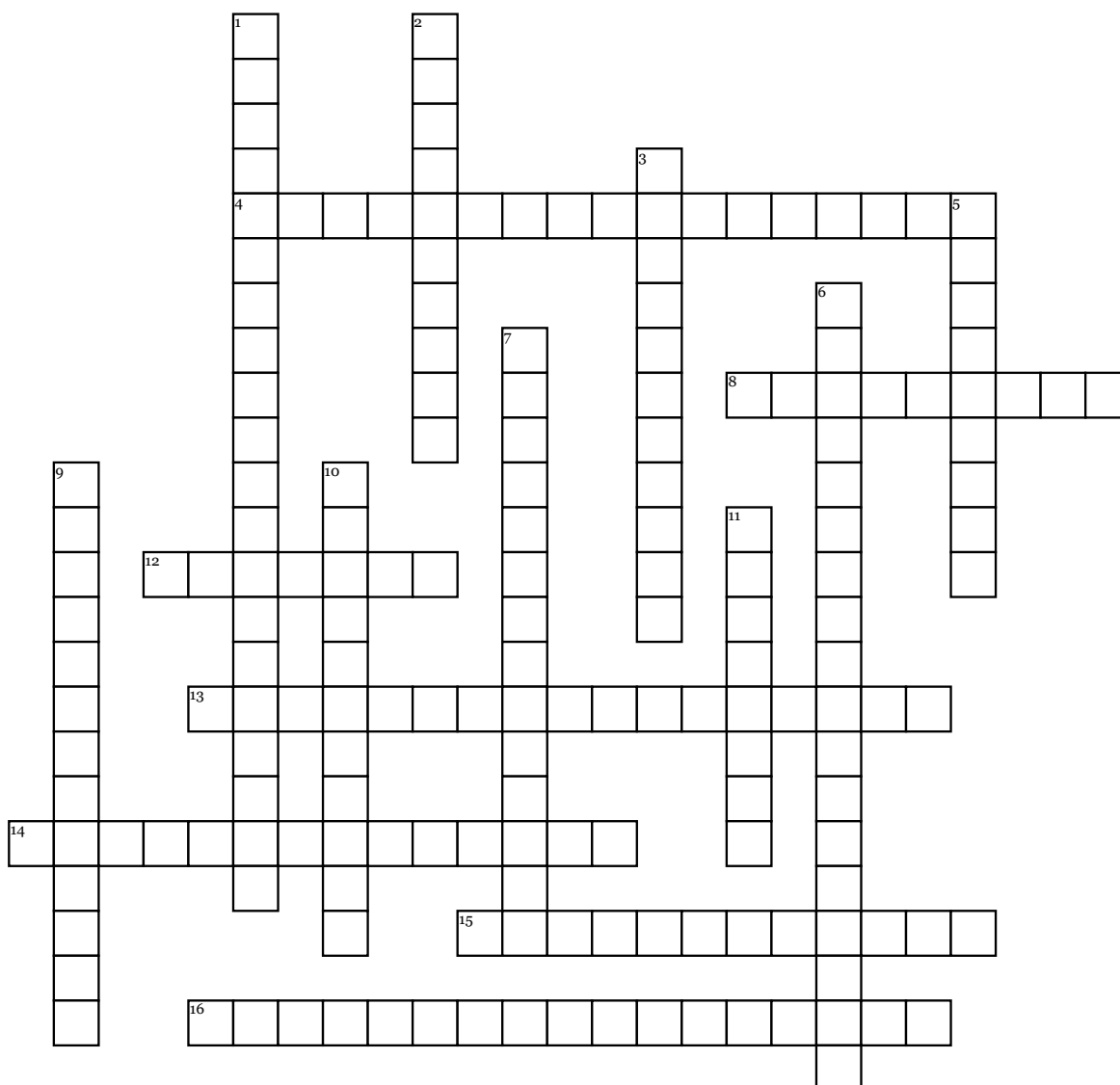# Algebra- Chapter 3 Crossword

Across

4. Eliminate one of the variables in a system of equations by adding or subtracting the equations

8. A system of inequalities that forms a region that is open

12. When a graph of system of constraints is a polygonal region

13. Process of finding the max. or min. values of a function for a region defined by inequalities

14. The point at which the income equals the cost

15. System of equations that has no solutions

16. A set of equations with the same variables

Down

1. A set of inequalities with the same variables

2. A system of equations that has a least one solution

3. Conditions given to variables, often expressed as linear inequalities

5. When a system of linear equations has an infinite amount of solutions

6. Method of solving a system of equations in which one equation is solved for one variable in terms of the other

7. The intersection of the graphs in a system of constraints

9. The solution of a system of equations in three variables x, y, and z

10. When a system of linear equations has exactly one solution

11. To seek the optimal price or amount that is desired to minimize costs or maximum profits