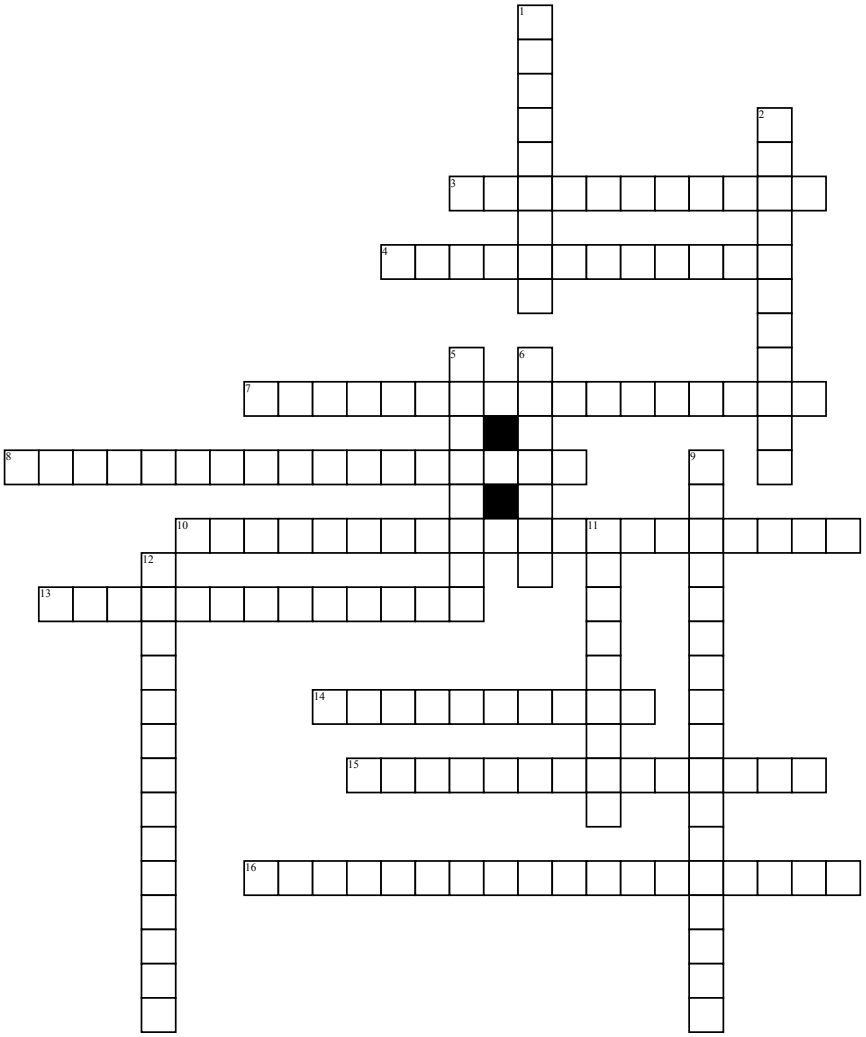
Chapter 3



Across

3. When a system of equations that has no solutions.
4. A system of equations that has no solutions
7. The process of finding the maximum or minimum values of a function for a region defined by inequalities
8. A set of equations with the same variables
10. A set of inequalities with the same variables
13. The coordinates of a point in space. the solution of a system of equations in three variables.
14. A system of equations that has at least one solution.
15. The point at which the income equals the cost.
16. A method of solving a system of equations in which one equation is solved for one variable in terms of the other

Down

1. When a system of linear equations has an infinite number of solutions.
2. conditions given to variables, often expressed as linear inequalities
5. To seek the optimal price or amount that is desired to minimize costs or maximize profits.
6. A region is ____ when the graph of a system is a polygonal region.
9. Eliminate one of the variables in a system of equations by adding or subtracting the equations
11. A system of inequalities that forms a region that is open
12. The intersection of the graphs in a system of constraints.

Word Bank

CONSISTENT
BOUNDED
LINEAR PROGRAMMING
FEASIBLE REGION
INCONSISTENT
ORDERED TRIPLE
SYSTEM OF INEQUALITIES
CONSTRAINTS
SYSTEM OF EQUATIONS
OPTIMIZE
SUBSTITUTION METHOD
ELIMINATION METHOD
BREAK-EVEN POINT
UNBOUNDED
DEPENDENT
INDEPENDENT