

Glossary (Chapter 4)

Sections Covered: 4.1, 4.2, 4.3, 4.5

1. **System of linear equations:** Working with a collection of two or more linear equations at the same time.
2. **Solution of a system of linear equations:** An ordered pair consisting of an “x” and “y” value such that when substituted into a system of linear equation makes a true statement.
3. **Consistent system:** A system of linear equation that has a solution.
4. **Inconsistent system:** A system of equation that does not have a solution. Such a system of linear equations contains parallel lines.
5. **Unique Solution:** A system of equation that intersects at a single point and therefore has one solution.
6. **Infinitely many solution:** A system of equation that intersects infinitely many times. The two linear equations within the system are exactly the same and run on top of each other.
7. **No solution:** A system of equation with parallel lines; therefore the two linear equations within the system of equation never intersect to create a solution.
8. **Independent lines:** Two linear equations that are different from each other. They contain either different slope or y-intercept.
9. **Dependent Lines:** Two linear equations that are exactly the same. They contain same slope and same y-intercept.