

**\*Objective(s)** *Students will be able to:*

1. Solve a system by graphing.
  2. Solve a system by substitution & elimination.
  3. Solve systems of linear inequalities.
  4. Find maximum and minimum values.
  5. Solve problems with linear programming.
  6. Graph points & equations in three dimensions.
  7. Solve systems in three variables by elimination & substitution.
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**ODE Standard, Grade Band Benchmark and/or Grade Level Indicator(s)**

**Patterns, Functions, and Algebra**

8-10 / H. Solve systems of linear equations involving two variables graphically and symbolically.

Grade 8 / 11. Interpret the meaning of the solution of a 2 by 2 system of equations; i.e., point, line, no solution.

Grade 9 / 9. Solve and interpret the meaning of 2 by 2 systems of linear equations graphically, by substitution and by elimination, with and without technology.

Grade 10 / 11. Solve real-world problems that can be modeled, using systems of linear equations and inequalities.

Grade 11 / 9. Solve 3 by 3 systems of linear equations by elimination and using technology, and interpret graphically what the solution means (a point, line, plane, or no solution).

Grade 12 / 5. Set up and solve systems of equations using matrices and graphs, with and without technology.

**Mathematical Processes**

Grades 8-10/ A, B, C, D, E, F, G, H

Grades 11-12 / H, I, J

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**Assignments**

- 3.1 # 12 (without graphing calculator), 25-35 EOO, 37-43 odd, 44 a & c, 45-55, (56-74)
- 3.2 # 1-41 EOO, 42, 60-64, (67-81)
- 3.3 # 1-39 EOO, 40-42, 43-51 odd, 52, (53-72)
- 3.4 # 1-9 odd, 10, 11, 13, 15, 17, 19, 20, 21, 23, (24-42)
- 3.5 # 5-18, 33-36, 48, 49
- 3.6 # 22-24, 11, 25-26, 29, 19-21, 40, 42, 43
- Chapter 3 Practice Test Worksheet