

Section 1.4 Practice Master

- Solve using the method of elimination.
 - $x - y = 1$ $x + y = 4$
 $3x + 2y = 23$ $2x - 3y = -2$
 - $4x + 2y = 2$ $4x - y = 3$
 $5x - y = -8$ $-4x - 3y = 9$
- Solve using the method of elimination. Check each solution.
 - $2x + y = -2$ $x - y = 3$
 $-3x - y = 3$ $3x + 2y = 39$
 - $5x + 2y = -11$ $6y - 5x = -7$
 $3x + 2y = -9$ $2y - 5x = -19$
- Find the point of intersection of each pair of lines.
 - $7x + 3y = -17$ $3x - 6y = 36$
 $6x + 2y = -14$ $4x - y = 6$
 - $x + 2y = -3$ $2x - 3y = 2$
 $2x + 3y = -4$ $5x + 6y = 5$
- Solve by elimination. Check each solution.
 - $3(x + 2) - (y + 7) = -1$
 $5(x + 1) + 4(y - 3) = -24$
 - $5(m - 3) + 2(n + 4) = 10$
 $3(m + 4) - 4(n + 3) = -21$
 - $2(a - 4) + 5(b + 1) = 8$
 $3(a - 1) - 2(b - 2) = -11$
 - $2(x + 2) - 3(y + 1) = -6$
 $4(x - 1) + 2(y - 1) = 4$
- Solve each linear system using elimination.
 - $0.3x + 0.2y = 0.5$
 $0.5x - 0.4y = 0.1$
 - $0.6a - 0.2b = 1.8$
 $-0.4a + 0.5b = 0.7$
 - $0.3x - 0.5y = 1.2$
 $0.7x - 0.2y = -0.1$
 - $0.5x - 1.3y = 1.23$
 $4x - 2y = 0.6$
- Solve by elimination.
 - $\frac{1}{3}m - n = -2$
 $\frac{m}{4} - \frac{2n}{3} = -1$
 - $\frac{x-6}{4} + \frac{y+2}{3} = 0$
 $\frac{x+1}{3} - \frac{y-5}{2} = 3$
- Some provinces have names with First Nations origins. For example, "Ontario" comes from an Iroquois word meaning "beautiful water." If the number of provincial names with First Nations origins is a , and the number with other origins is b , the numbers are related by the following equations.
 $a + b = 10$
 $3a - 2b = 0$
 - Interpret each equation in words.
 - Find the number of provinces that have names with First Nations origins.
- At Lisa's Sub Shop, two veggie subs and four roast beef subs cost \$34. Five veggie subs and six roast beef subs cost \$61. Write and solve a system of equations to find the cost of each type of sub.
- A weekend at Skyview Lodge costs \$360 and includes two nights' accommodation and four meals. A week costs \$1200 and includes seven nights' accommodation and ten meals. Write and solve a system of equations to find the cost of one night and the cost of one meal.
- The Mackenzie, the longest river in Canada, is 1056 km longer than the Yukon, the second-longest river. The total length of the two rivers is 7426 km. Find the length of each river.