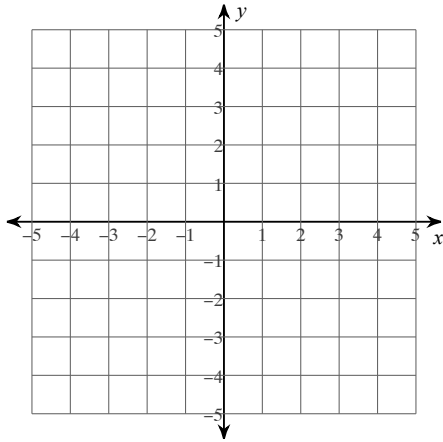
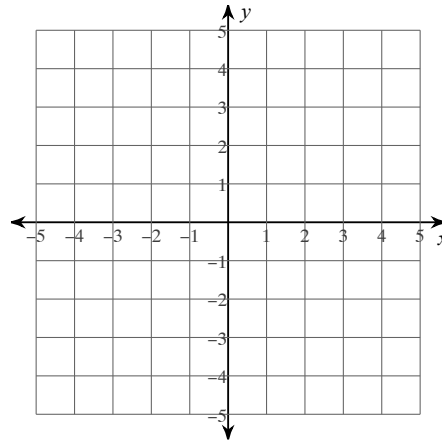


Solve each system by graphing.

$$1) \begin{aligned} y &= 4x - 2 \\ y &= -2x + 4 \end{aligned}$$



$$2) \begin{aligned} y &= \frac{1}{3}x - 3 \\ y &= \frac{5}{3}x + 1 \end{aligned}$$

**Solve each system by substitution.**

$$3) \begin{aligned} y &= -1 \\ y &= -2x - 9 \end{aligned}$$

$$4) \begin{aligned} y &= -4 \\ y &= -2x - 10 \end{aligned}$$

Solve each system by elimination.

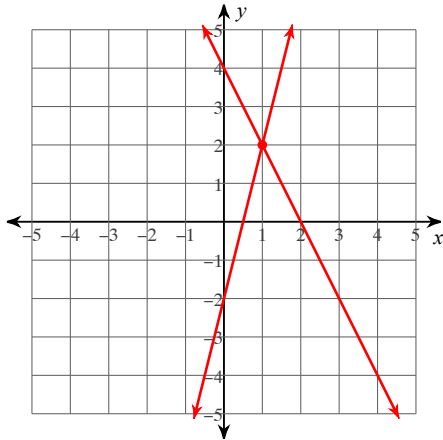
$$5) \begin{aligned} x + 4y &= -12 \\ -x - 6y &= 18 \end{aligned}$$

$$6) \begin{aligned} x + 4y &= 12 \\ -x - 6y &= -18 \end{aligned}$$

- 7) Kathryn and Chelsea are selling flower bulbs for a school fundraiser. Customers can buy bags of windflower bulbs and packages of crocus bulbs. Kathryn sold 5 bags of windflower bulbs and 3 packages of crocus bulbs for a total of \$109. Chelsea sold 5 bags of windflower bulbs and 5 packages of crocus bulbs for a total of \$145. What is the cost each of one bag of windflower bulbs and one package of crocus bulbs?
- 8) Shawna and Sumalee each improved their yards by planting hostas and ivy. They bought their supplies from the same store. Shawna spent \$32 on 3 hostas and 4 pots of ivy. Sumalee spent \$72 on 8 hostas and 4 pots of ivy. What is the cost of one hosta and the cost of one pot of ivy?
- 9) Jimmy's school is selling tickets to the annual talent show. On the first day of ticket sales the school sold 6 adult tickets and 2 student tickets for a total of \$36. The school took in \$33 on the second day by selling 6 adult tickets and 1 student ticket. Find the price of an adult ticket and the price of a student ticket.
- 10) Amy and Huong are selling fruit for a school fundraiser. Customers can buy small boxes of grapefruit and large boxes of grapefruit. Amy sold 4 small boxes of grapefruit and 2 large boxes of grapefruit for a total of \$84. Huong sold 6 small boxes of grapefruit and 2 large boxes of grapefruit for a total of \$112. What is the cost each of one small box of grapefruit and one large box of grapefruit?
- 11) The senior classes at High School A and High School B planned separate trips to Yellowstone National Park. The senior class at High School A rented and filled 4 vans and 2 buses with 138 students. High School B rented and filled 4 vans and 7 buses with 423 students. Every van had the same number of students in it as did the buses. How many students can a van carry? How many students can a bus carry?
- 12) The senior classes at High School A and High School B planned separate trips to the state fair. The senior class at High School A rented and filled 8 vans and 3 buses with 186 students. High School B rented and filled 3 vans and 3 buses with 141 students. Each van and each bus carried the same number of students. Find the number of students in each van and in each bus.

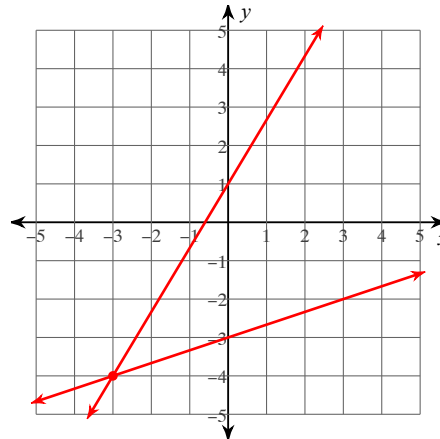
Solve each system by graphing.

1) $y = 4x - 2$
 $y = -2x + 4$



(1, 2)

2) $y = \frac{1}{3}x - 3$
 $y = \frac{5}{3}x + 1$



(-3, -4)

Solve each system by substitution.

3) $y = -1$
 $y = -2x - 9$

(-4, -1)

4) $y = -4$
 $y = -2x - 10$

(-3, -4)

Solve each system by elimination.

5) $x + 4y = -12$
 $-x - 6y = 18$

(0, -3)

6) $x + 4y = 12$
 $-x - 6y = -18$

(0, 3)

- 7) Kathryn and Chelsea are selling flower bulbs for a school fundraiser. Customers can buy bags of windflower bulbs and packages of crocus bulbs. Kathryn sold 5 bags of windflower bulbs and 3 packages of crocus bulbs for a total of \$109. Chelsea sold 5 bags of windflower bulbs and 5 packages of crocus bulbs for a total of \$145. What is the cost each of one bag of windflower bulbs and one package of crocus bulbs?

bag of windflower bulbs: \$11, package of crocus bulbs: \$18

- 8) Shawna and Sumalee each improved their yards by planting hostas and ivy. They bought their supplies from the same store. Shawna spent \$32 on 3 hostas and 4 pots of ivy. Sumalee spent \$72 on 8 hostas and 4 pots of ivy. What is the cost of one hosta and the cost of one pot of ivy?

hosta: \$8, pot of ivy: \$2

- 9) Jimmy's school is selling tickets to the annual talent show. On the first day of ticket sales the school sold 6 adult tickets and 2 student tickets for a total of \$36. The school took in \$33 on the second day by selling 6 adult tickets and 1 student ticket. Find the price of an adult ticket and the price of a student ticket.

adult ticket: \$5, student ticket: \$3

- 10) Amy and Huong are selling fruit for a school fundraiser. Customers can buy small boxes of grapefruit and large boxes of grapefruit. Amy sold 4 small boxes of grapefruit and 2 large boxes of grapefruit for a total of \$84. Huong sold 6 small boxes of grapefruit and 2 large boxes of grapefruit for a total of \$112. What is the cost each of one small box of grapefruit and one large box of grapefruit?

small box of grapefruit: \$14, large box of grapefruit: \$14

- 11) The senior classes at High School A and High School B planned separate trips to Yellowstone National Park. The senior class at High School A rented and filled 4 vans and 2 buses with 138 students. High School B rented and filled 4 vans and 7 buses with 423 students. Every van had the same number of students in it as did the buses. How many students can a van carry? How many students can a bus carry?

Van: 6, Bus: 57

- 12) The senior classes at High School A and High School B planned separate trips to the state fair. The senior class at High School A rented and filled 8 vans and 3 buses with 186 students. High School B rented and filled 3 vans and 3 buses with 141 students. Each van and each bus carried the same number of students. Find the number of students in each van and in each bus.

Van: 9, Bus: 38