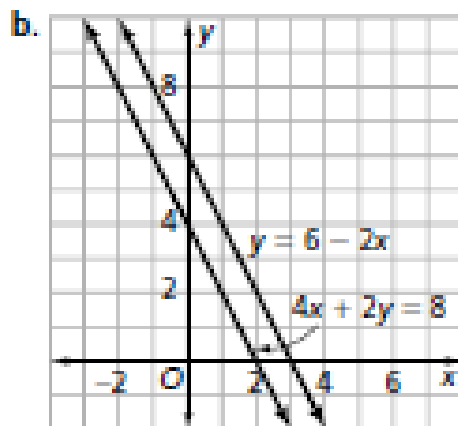


Lessons 4.10 and 4.11

Additional Practice

- Messenger Service B; \$1 less
 - Messenger Service A; \$6.50 less
 - 12 miles

- no solution



The graph shows that the lines are parallel. Since parallel lines do not intersect, the system of equations does not have a solution.

- $(22, 510)$
 - No solution; the lines have the same slope and different y -intercepts, so the lines are parallel.
- Parallel; the lines have the same slope of 0.4 and different y -intercepts.
 - Intersecting; the lines have different slopes.
 - Identical; the lines have the same slope of $-\frac{3}{2}$ and the same y -intercept of $\frac{5}{2}$.
 - Parallel; the lines have the same slope of $\frac{2}{3}$ and different y -intercepts.

- $y + 3 = -\frac{5}{6}(x - 12)$

- $y + 5 = \frac{2}{3}(x + 6)$

- $y + 4 = -\frac{2}{3}(x - 1)$

- $x = -2$

- $y = -11$

- $k = -8$

- $k = -8$

- $k = -8$

- Answers may vary. Sample: If the graph of $y = mx + k$ contains $(0, b)$, then $k = q$.

- $k = 40$

- $k = 56$

- $k = 8q$

- Answers may vary. Sample: If the graph of $y = mx + k$ contains $(a, 0)$, then $k = -ma$.

- $k = -8$

- $k = -8$

- $k = 48$

- $k = 800$

Lesson 4.12 Additional Practice

- $(5, -2)$

- $(5, 13)$

- $(2, \frac{2}{5})$

- $(-3, -4)$

- $(\frac{2}{3}, \frac{4}{3})$

- $(12, -8)$

- \$2.50

- \$1.50

- $P(-2, 6)$

- $y = 6$

- $x = -2$

- $-4x + 7y = 50$

- $y - 8 = -3(x + 5), y - 8 = \frac{3}{4}(x + 5)$

- Answers may vary. Sample:

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

- \$2.25

- \$3.00

- Answers may vary. Samples:

- 1 coffee and 10 bagels, 2 coffees and 8 bagels, 3 coffees and 6 bagels, 4 coffees and 4 bagels

- $(4, 9)$

- $(-3, -2)$

- $(1, 5)$

- $(-6, 38)$

- $(2, -6)$

- $(6, -3)$

- $(-2, 6)$

- $(\frac{1}{2}, \frac{2}{3})$

- no solution