Even Answers for 27 Apr – 1 May

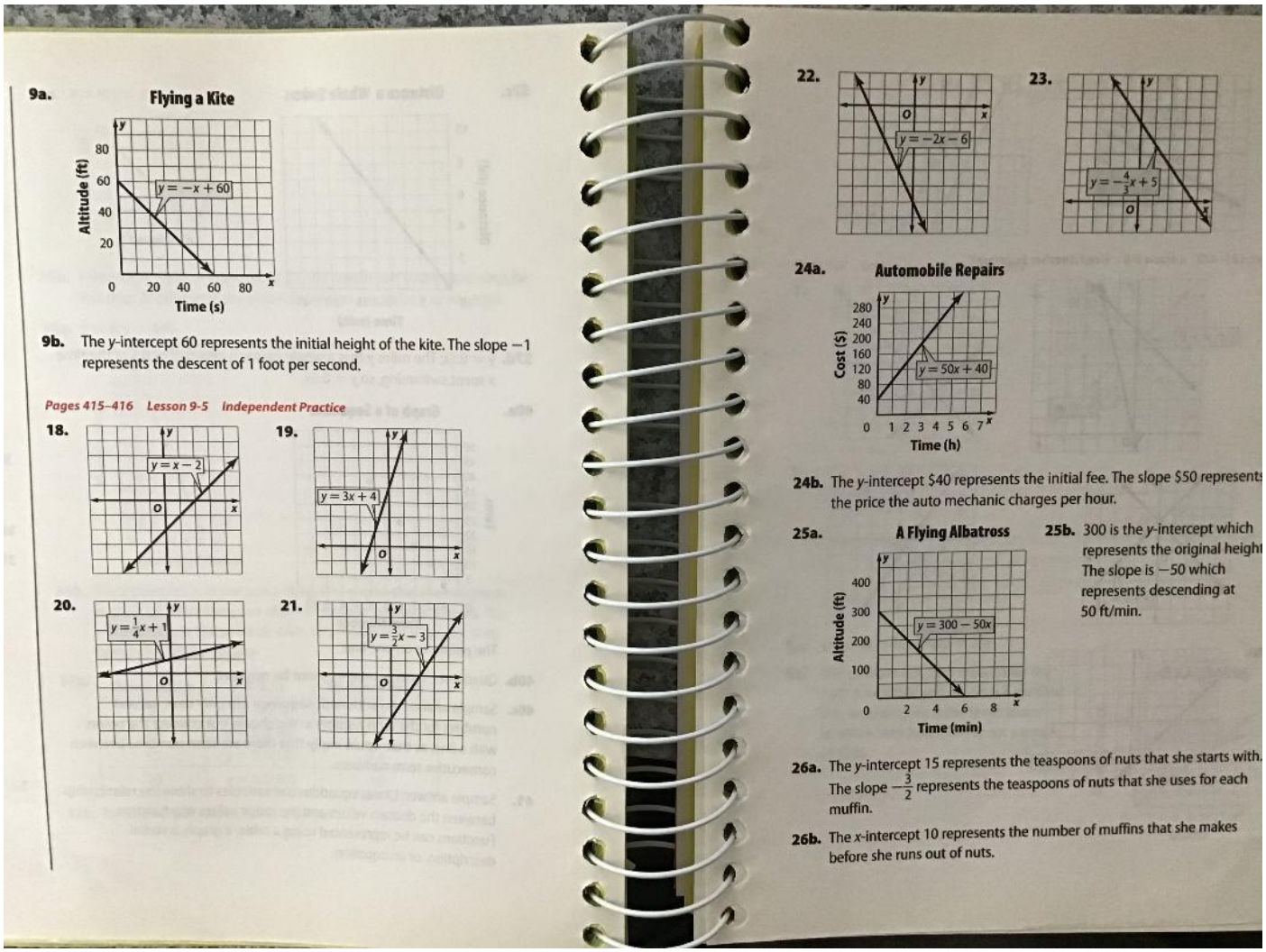
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10. m= 1 y-intercept= 8

12. m= 1/3 y-intercept= 0

14. m= 1 y-intercept= 5

16. m= 9 y-intercept= -5



9a. **Flying a Kite**

9b. The *y*-intercept 60 represents the initial height of the kite. The slope −1 represents the descent of 1 foot per second.

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18.

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23.

24a. **Automobile Repairs**

24b. The *y*-intercept $40 represents the initial fee. The slope $50 represents the price the auto mechanic charges per hour.

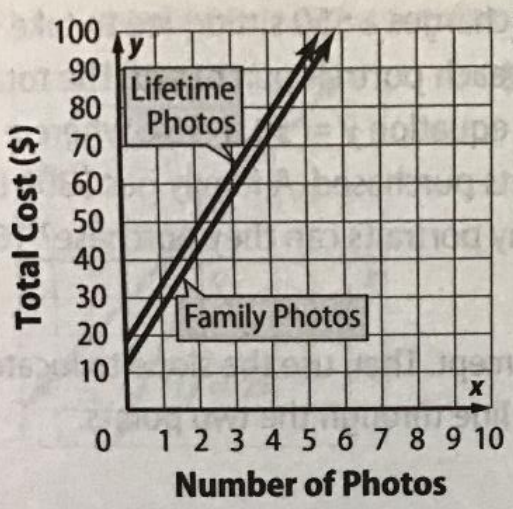
25a. **A Flying Albatross**

25b. 300 is the *y*-intercept which represents the original height. The slope is −50 which represents descending at 50 ft/min.

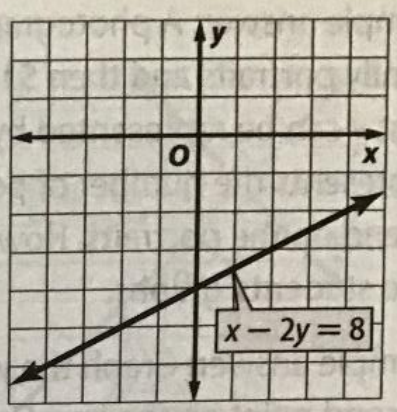
26a. The *y*-intercept 15 represents the teaspoons of nuts that she starts with. The slope $-\frac{3}{2}$ represents the teaspoons of nuts that she uses for each muffin.

26b. The *x*-intercept 10 represents the number of muffins that she makes before she runs out of nuts.

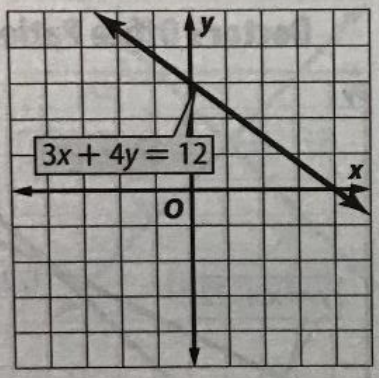
27b.



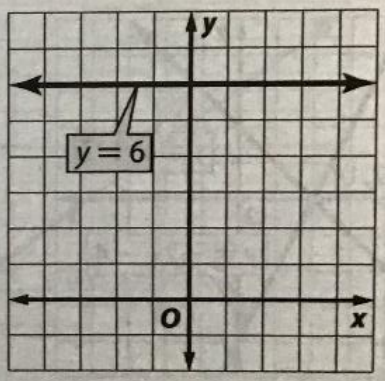
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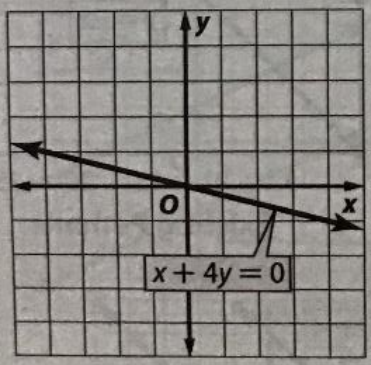
29.



30.



31.

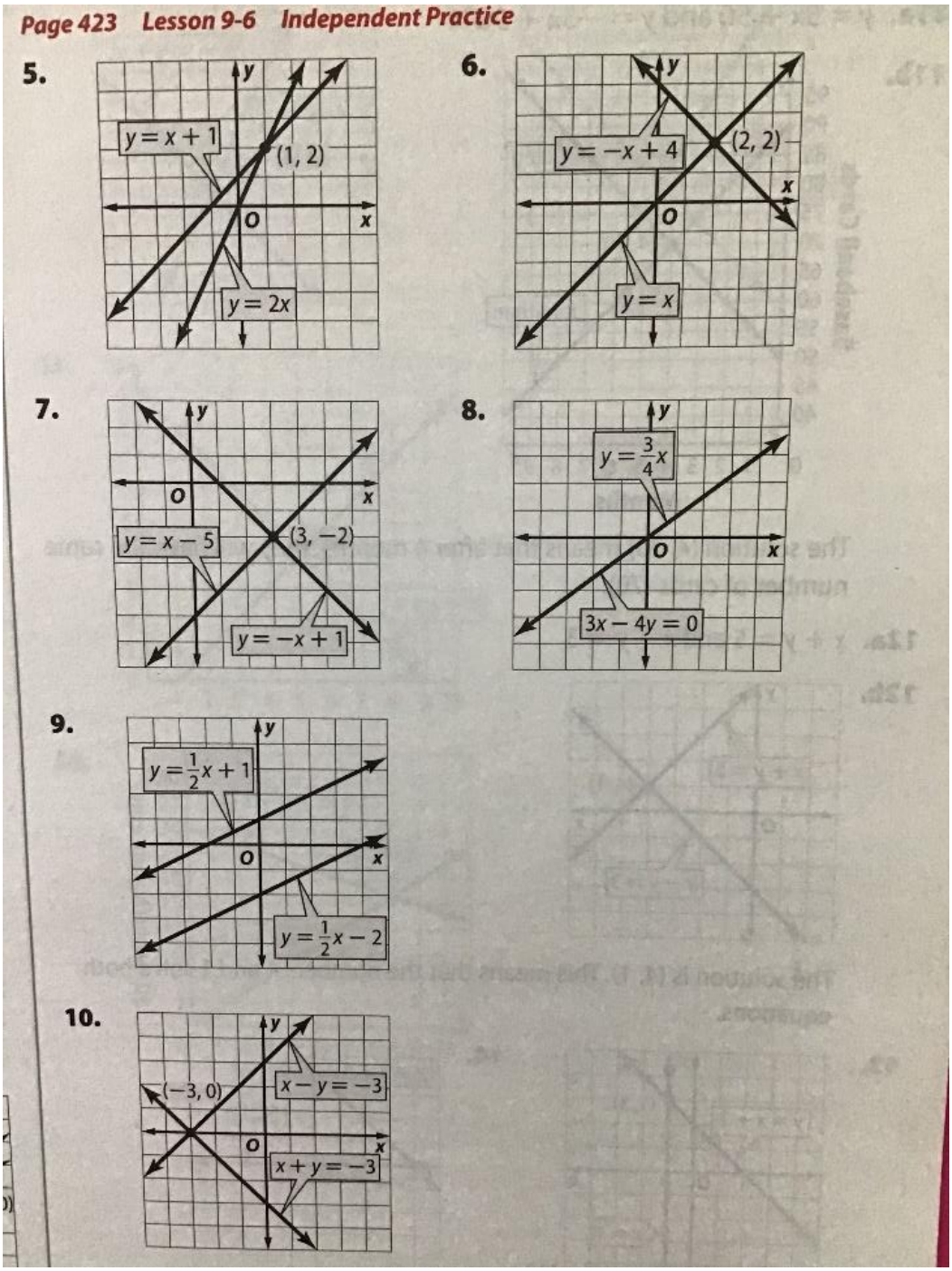


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6. (2,2)

8. Infinitely many solutions

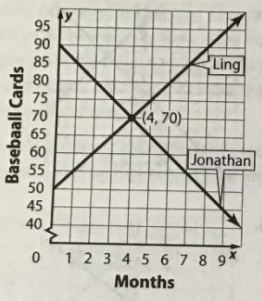
10. (-3,0)



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11a. $y = 5x + 50$ and $y = -5x + 90$

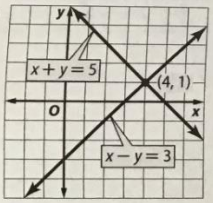
11b.



The solution (4, 70) means that after 4 months, they will have the same number of cards (70).

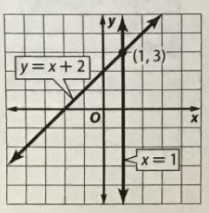
12a. $x + y = 5$ and $x - y = 3$

12b.

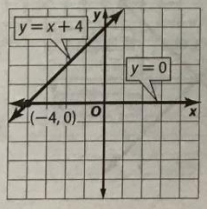


The solution is (4, 1). This means that the numbers 4 and 1 solve both equations.

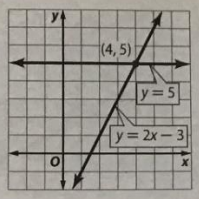
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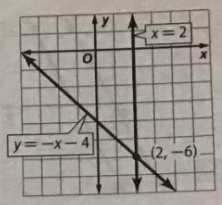
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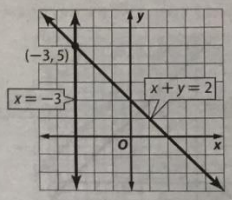
15.



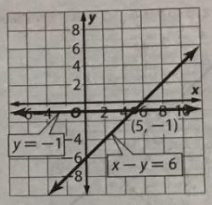
16.



17.



18.



21. Sample answer: If a system of equations has 1 solution, the graphs a intersecting lines. If the system has no solution, the graphs are paral lines. If the system has infinitely many solutions, then the graphs are the same line.

23. Sample answer: Two lines can be parallel and never intersect, interse in exactly one point, or be the same line. Therefore a system of linea equations cannot have exactly two solutions.

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24. Sample answer: A group of 14 children and adults went to the mov The group spent a total of $76. Children's tickets cost $4 and adult tickets cost $8. The equations $x + y = 14$ and $4x + 8y = 76$ represe the situation. The solution (9, 5) means that 9 children and 5 adults went to the movies.

25. Sample answer: Since the solution is $(1, p)$, $x = 1$. Replace x with 1 the system of equations. Solve for y in the first equation. Since $y = 2$ $p = 2$. Replace x with1 and y with 2 in the second equation. Then s for m. $m = -3$.

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24. A

25. G

26. C

27. 12

28. = 9

30. = 18

32. = $252

34. $13

36. No the rates are not equal

38. This is a function. Each domain has a range.