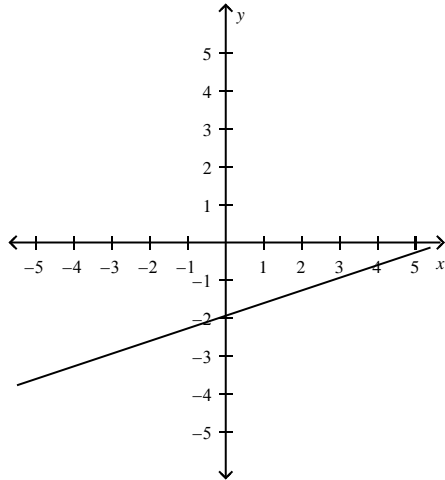


5.6-5.9 Exam Review

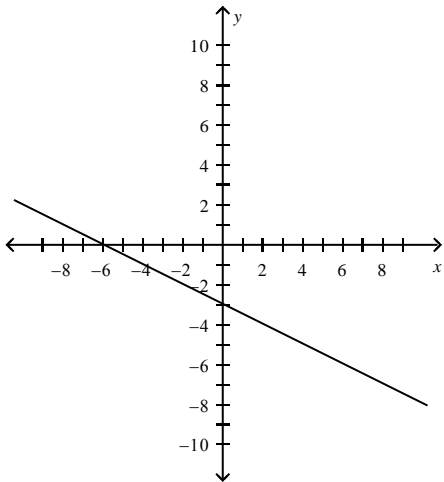
Accuracy of these solutions is not 100%!

When in doubt ask your instructor!!!

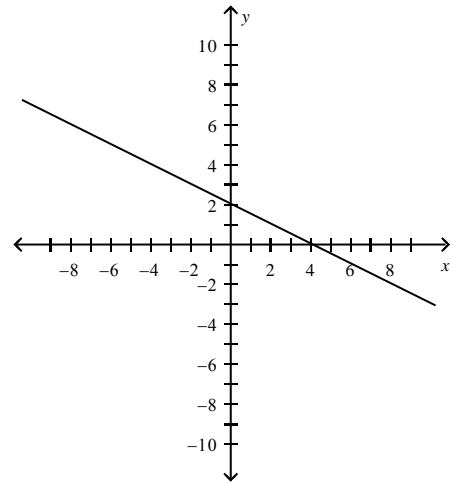
1. x -intercept: -8 , y -intercept: 4
- 2.



3. $y = 2x + \frac{3}{2}$
4. $y = 4x - 14$
5. $y = -\frac{1}{2}x - 3$



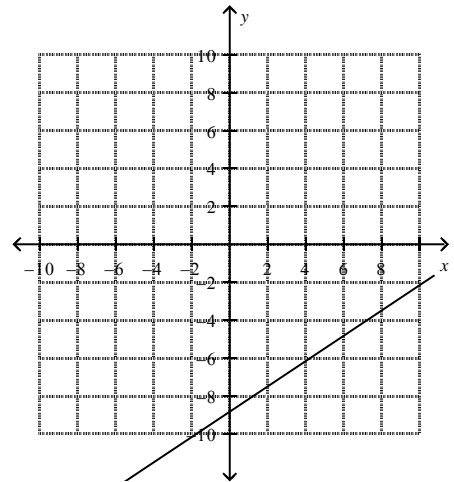
6. $y = -\frac{1}{2}x + 2$



7. $w = -0.5d + 34$

The slope is -0.5 , and this is the rate at which the water level is receding. The y -intercept is 34 , and this is the water level after 0 days. In 16 days, the water level will be 26 feet.

8.



9. $y + 7 = 6(x + 8)$

10. $y = -x + 5$

11. $y = -\frac{3}{4}x + \frac{37}{4}$

12. Lines 2 and 3 are parallel.

13. $y = -2$ and $x = -2$ are perpendicular;
 $y = \frac{1}{3}x + 3$ and $y + 3 = -5(x + 2)$ are perpendicular.

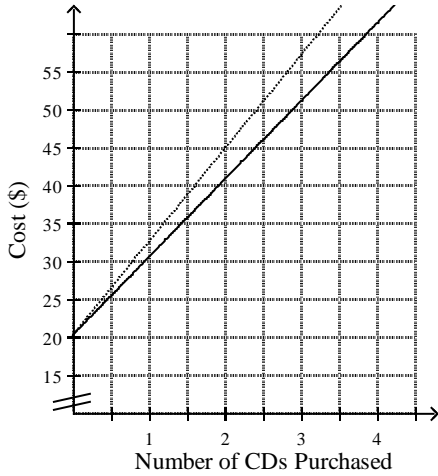
14. $y = 5x - 42$

15. $y = -3x + 29$

16. The graph $g(x) = x - 1$ is the result of translating the graph of $f(x) = x + 4$ down 5 units.

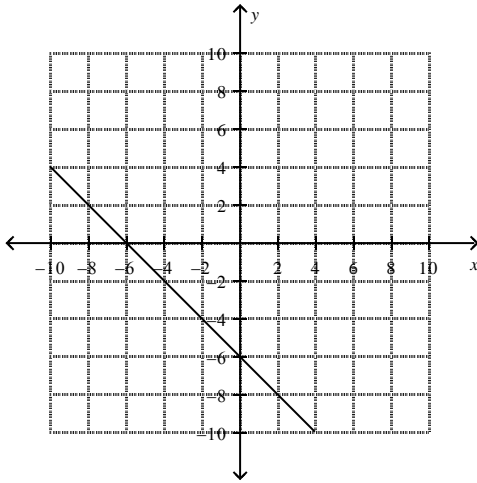
17. The graph of $g(x) = \frac{1}{4}x$ is the result of rotating the graph of $f(x) = 3x$ clockwise. The graph of $g(x)$ is less steep than the graph of $f(x)$.

18.

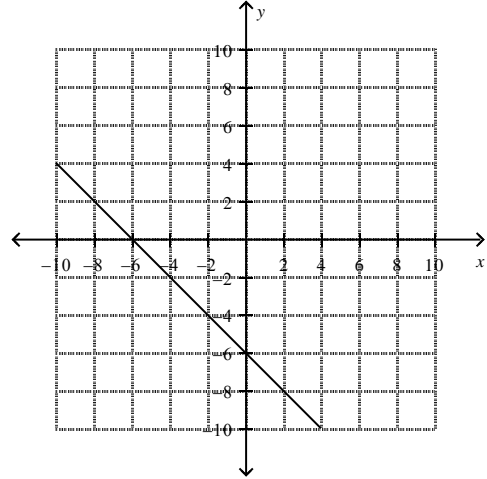


19. $y = \frac{2}{5}x - 6$

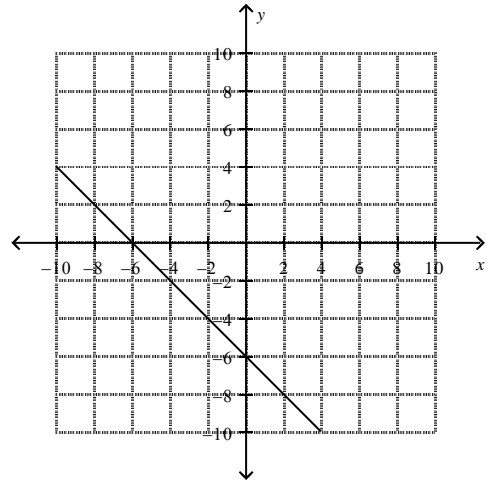
20.



21.



22.

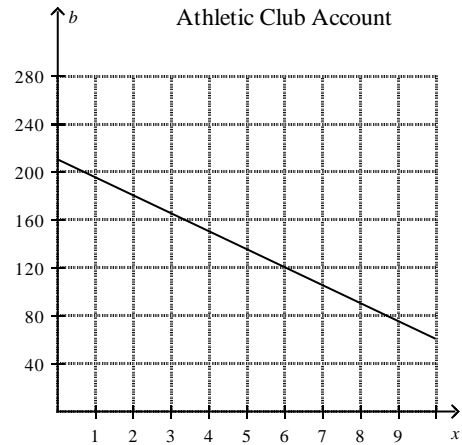


23. $y + 5 = -3(x - 1); y = -3x - 2$

24. The relationship is linear; $y + 2 = -\frac{5}{4}(x + 9)$.

25. $y = (3/2)x - 3$

26.



$b = 210 - 15x$