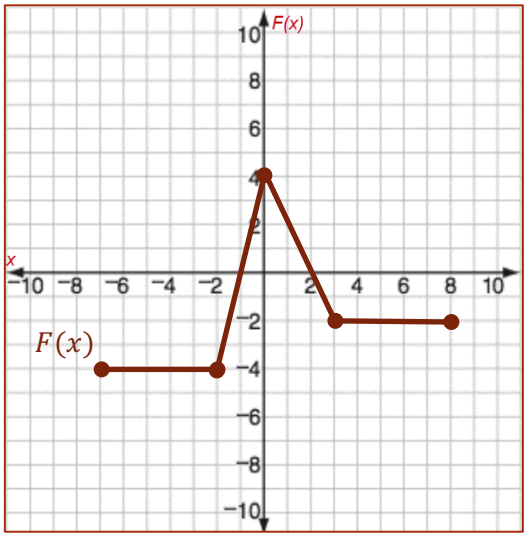
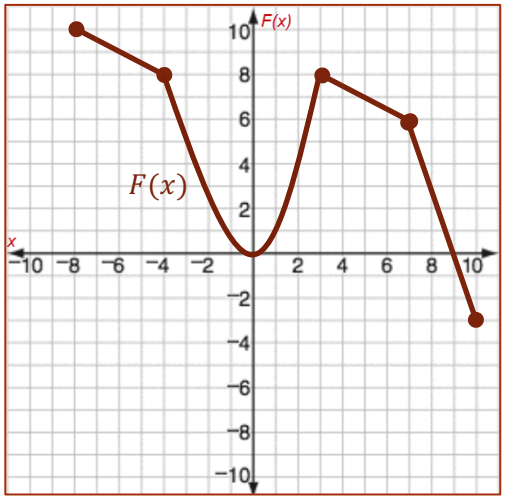
8.2 Practice

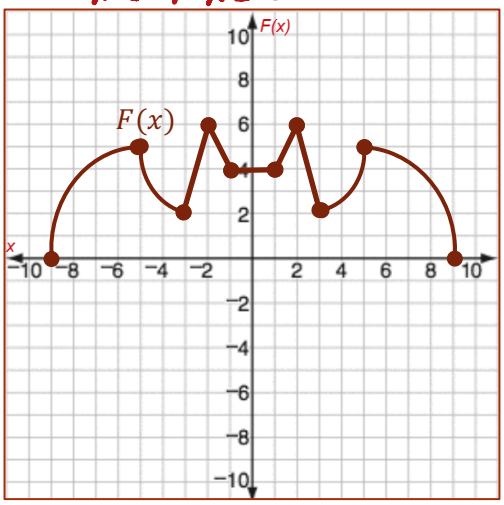
Find the values using the graph.



1. $F(3) =$ -2
2. $F(0) =$ 4
3. y-intercept = $(0,4)$
4. Where is $F(x)$ decreasing? $0 \le x \le 3$
5. What is the range of $F(x)$? $-4 \le F(x) \le 4$
6. Where is $F(x)$ negative? $-7 \le x \le -1$ & $2 \le x \le 8$
7. Where is $F(x)$ increasing? $-2 \le x \le 0$
8. Where is $F(x)$ constant? $-7 \le x \le -2$ & $3 \le x \le 8$
9. $F(-4) =$ -4
14. $F(-2) =$ -4
10. If $F(x) = 0$, find x. $x = -1$ $x = 2$
11. What is the domain of $F(x)$? $-7 \le x \le 8$
12. If $F(x) = -3$, find x. $x \approx -1.75$



13. What is the range of $F(x)$? $-3 \le F(x) \le 10$
14. $F(8) =$ 3
15. If $F(x) = -4$, find x. DNE :(
16. Where is $F(x)$ decreasing? $-8 \le x \le 0$ $3 \le x \le 10$
17. What is the maximum of $F(x)$? 10
18. x-intercepts = $(0,0)$ $(9,0)$
19. If $F(x) = 0$, find x. $x = 0$ $x = 9$
20. $F(2) =$ 4
21. If $F(x) = -3$, find x. $x = 10$
22. What is the domain of $F(x)$? $-8 \le x \le 10$
23. Estimate the rate of change for $-8 \le x \le -4$. $-\frac{1}{2}$
24. Where is $F(x)$ positive? $-8 \le x < 0$ & $0 < x < 9$
25. If $F(x) = 8$, find x. $x = -4$ $x = 3$
26. Where is $F(x)$ negative? $-9 < x \le 10$
27. What is the minimum of $F(x)$? -3
35. $F(7) =$ 6



28. What is the range of $F(x)$? $0 \le F(x) \le 6$
29. $F(-1) =$ 4
30. What is the domain of $F(x)$? $-9 \le x \le 9$
31. Where is $F(x)$ increasing? $-10 \le x \le -5$ $-3 \le x \le -2$ $1 \le x \le 2$ $3 \le x \le 5$
32. x-intercepts = $(-9,0)$ $(9,0)$
33. If $F(x) = 0$, find x. $x = -9$ $x = 9$