

3.2: Answers

5. (a) All points in $[-3, 2]$
(b) None
(c) None
6. (a) All points in $[-2, 3]$ **11. disc (jump)**
(b) None **12. cusp**
(c) None
7. (a) All points in $[-3, 3]$ except $x = 0$
(b) None
(c) $x = 0$
8. (a) All points in $[-2, 3]$ except $x = -1, 0, 2$
(b) $x = -1$
(c) $x = 0, x = 2$
9. (a) All points in $[-1, 2]$ except $x = 0$
(b) $x = 0$
(c) None
10. (a) All points in $[-3, 3]$ except $x = -2, 2$
(b) $x = -2, x = 2$
(c) None
14. Vertical tangent
- ~~21. 8.000001, yes~~
- ~~22. 8.000001, yes~~
40. True
41. False
42. B
43. A
44. B
45. C

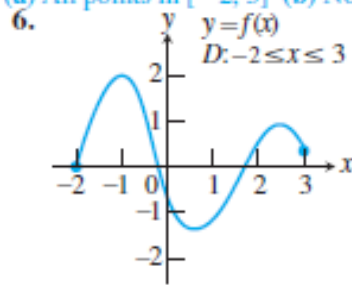
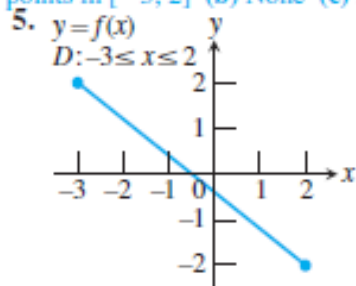
In Exercises 5–10, the graph of a function over a closed interval D is given. At what domain points does the function appear to be

(a) differentiable? (b) continuous but not differentiable?

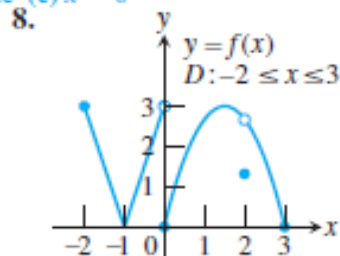
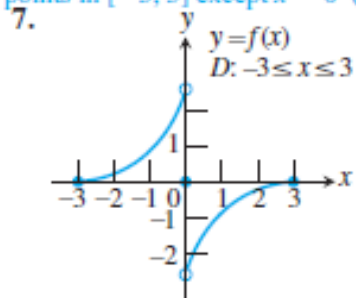
(c) neither continuous nor differentiable?

All points in $[-3, 2]$ (b) None (c) None (a) All points in $[-2, 3]$ (b) None (c) N

(a) All points in $[-2, 3]$ (b) None (c) None (a) All points in $[-2, 3]$ (b) None (c) None

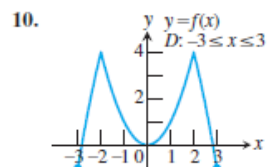
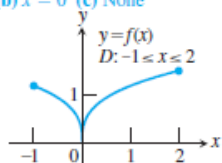


(a) All points in $[-3, 3]$ except $x = 0$ (b) None (c) $x = 0$



(a) All points in $[-2, 3]$ except $x = -1, 1$
(b) $x = -1$ (c) $x = 0$ (d) $x = 1$

(b) $x = 0$ (c) None



(a) All points in $[-3, 3]$ except $x = -2, 0, 2$
(b) $x = -2, 0, 2$ (c) None