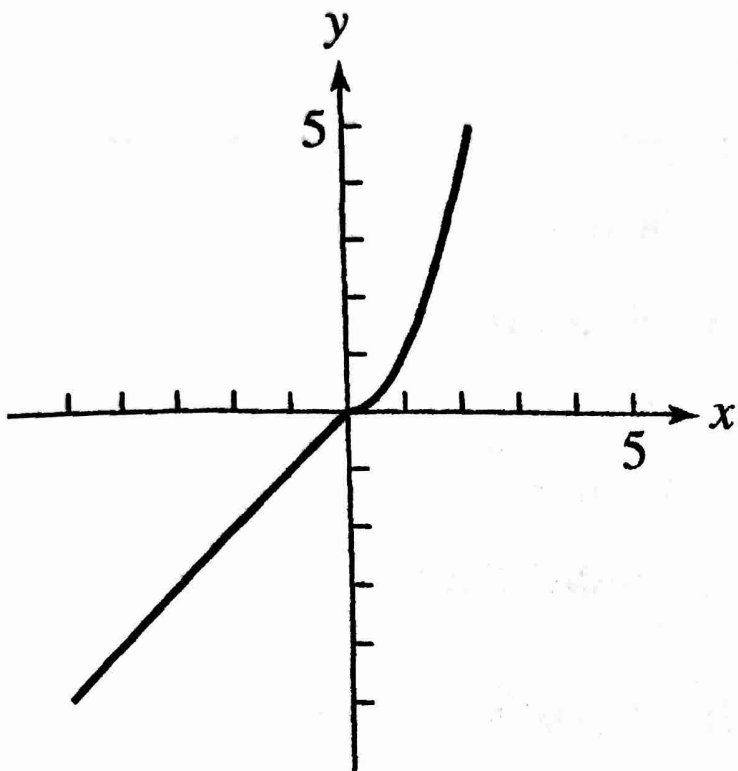
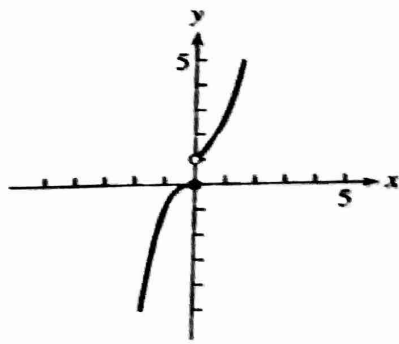


45.



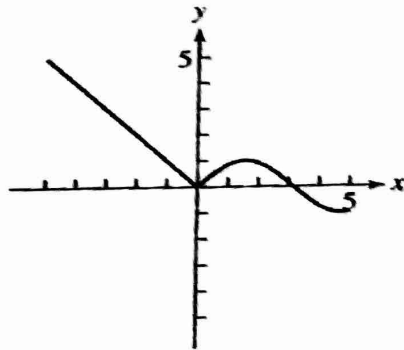
There are no points of discontinuity.

46.



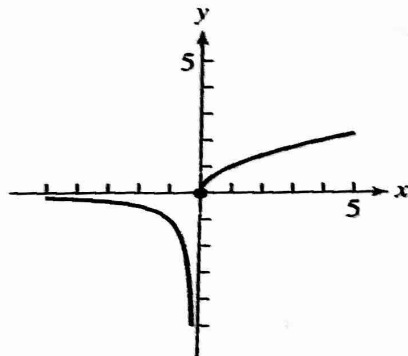
There is a point of discontinuity at $x = 0$.

47.



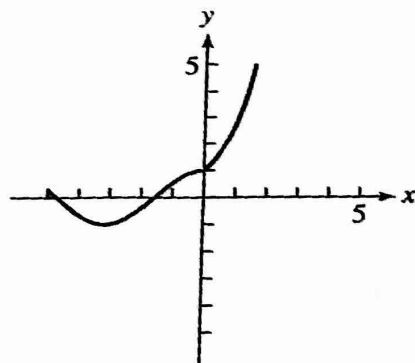
There are no points of discontinuity.

48.



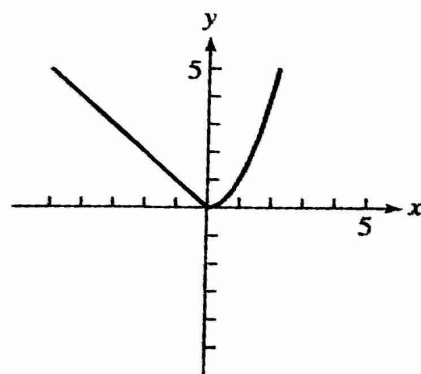
There is a point of discontinuity at $x = 0$.

49.



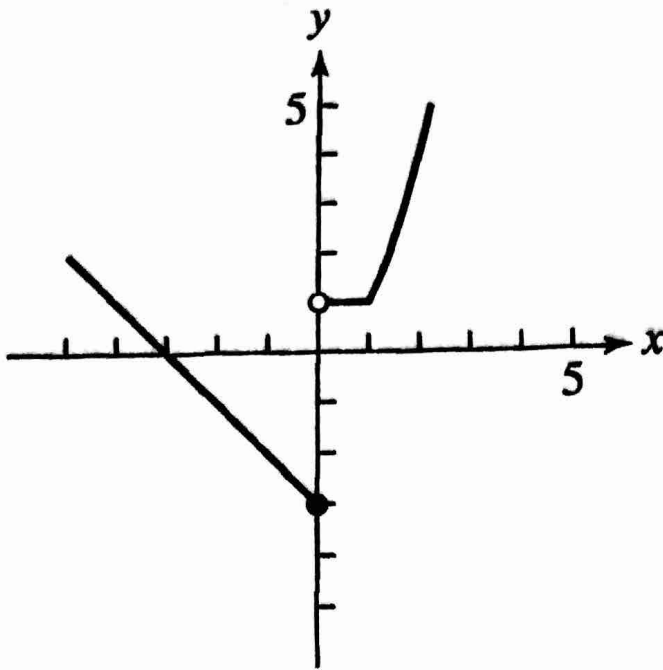
There are no points of discontinuity.

50.



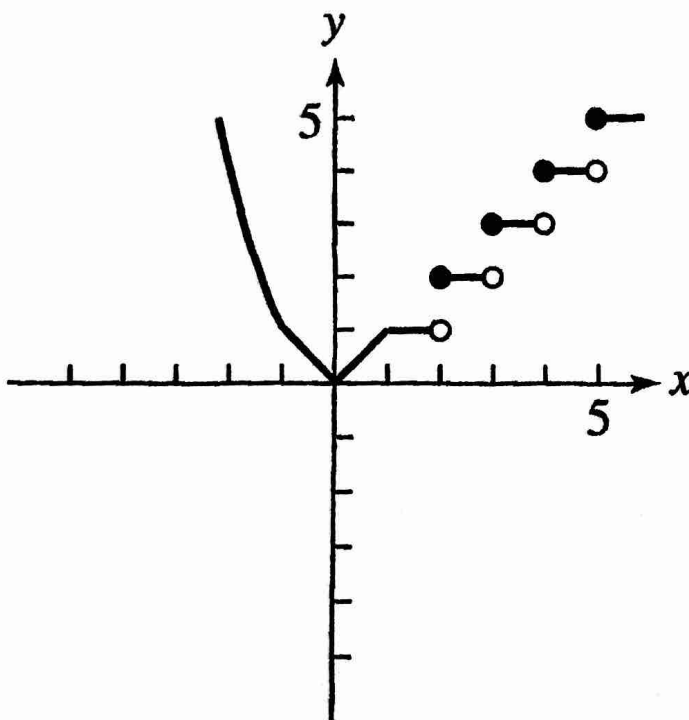
There are no points of discontinuity.

51.



There is a point of discontinuity at $x = 0$.

52.



- 60.** Because $3 - \frac{1}{x} \neq 3$, $0 < \frac{5}{1 + e^{-x}} < 5$, $-4 \leq 4 \cos x \leq 4$, and $\text{int}(x - 2)$ takes only integer values. The answer is (a).
- 61.** $3 < 3 + \frac{1}{1 + e^{-x}} < 4$. The answer is (d).
- 62.** By comparison of the graphs, the answer is (c).
- 63.** The answer is (e). The others all have either a restricted domain or intervals where the function is decreasing or constant.