

17. We are given the graph of  $f'(x)$  and we must obtain the graph of  $f(x)$ . First, we observe that  $f(x)$  is increasing where  $f'(x) \geq 0$ ;  $f(x)$  is decreasing where  $f'(x) < 0$ . In the given graph of  $f'(x)$ ,  $f'(x) \geq 0$  for  $x \geq -2$ ;  $f'(x) < 0$  for  $x < -2$ . Therefore,  $f(x)$  is decreasing for  $x < -2$  and increasing for all  $x \geq -2$ . From the given choices, the only graph that is decreasing to the left of  $x = -2$  and increasing to the right of  $x = -2$  is (D).

The correct choice is (D).