- 8. (6 points) On the axes below, sketch a possible graph of a single function y = g(x) satisfying all of the properties below: [Label your points on the axes.]
 - (i) g(x) is defined and continuous for all values of x.
 - (ii) g(x) has critical points at x = -1 and x = 4.
 - (iii) $g'(x) \ge 0$ on $(-\infty, 4)$.
 - (iv) g(x) is decreasing on $(4, \infty)$.
 - (v) $\lim_{x\to\infty} g(x) = -2.$

