- **9.** [9 points] On the grid below, sketch the graph of a single function f(x) that fulfills all the requirements below.
 - The domain of f is [-6,5)
 - The range of f is [-5, 6]
 - f(-1) = 2 and the average rate of change of f(x) on the interval [-1,3] is -1
 - f(x) < 1 for x < -1
 - f has a constant rate of change on the interval [-6, -1).
 - f is increasing on the interval [-6, -1)
 - f is concave down on the interval [-1,1)
 - \bullet f is decreasing on the interval [1, 3]
 - f is concave up on the interval (3,5)

