- 8. [10 points] A function h(x) satisfies all of the following:
 - h(x) is continuous on the interval -5 < x < 5.
 - h(x) is differentiable for all x in the interval -5 < x < 5 except at x = 2.
 - h(x) is decreasing for -5 < x < -2.
 - h(x) has a critical point at x = -4.
 - h(x) is concave up for -3 < x < -1.
 - h(x) has an inflection point at x = 1.
 - h(x) has a local minimum at x = 3.
 - h(x) is increasing at a constant rate for 4 < x < 5.

On the axes provided below, sketch a possible graph of h'(x) (the <u>derivative</u> of h(x)). Make sure that your sketch is large and unambiguous.

Graph of y = h'(x)

Solution: Below is one possible graph.

