- 4. (7 points) On the axes below, sketch a graph of a single function, *g*, with all of the following properties.
  - g(-2) = 0
  - g'(x) = -1 for x < -2
  - $\lim_{x \to -2^-} g(x) = \lim_{x \to -2^+} g(x)$
  - g''(x) > 0 for -2 < x < 0
  - g'(1) = 0
  - $\lim_{x \to 3^-} g(x) = -4$
  - g(x) = 2 for  $x \ge 3$

Note: Answers are not unique. One example of a graph which has the given properties is below.

