- **6.** [9 points] On the axes provided below, sketch the graph of a single function y = R(x) satisfying all of the following conditions:
 - The function R(x) is defined on $-8 \le x \le 9$.
 - R'(x) = 2 for -8 < x < -5.
 - R(x) is concave down and increasing on -5 < x < -2.
 - R(-2) = 1.
 - R(x) = R(-x) for $-2 \le x \le 2$.
 - The vertical intercept of R(x) is y = 3.
 - $\lim_{x\to 5^-} R(x) = -2$ but $\lim_{x\to 5} R(x)$ does not exist.
 - R(x) is not continuous at x = 7 but $\lim_{x \to 7} R(x)$ exists.

Make sure that your graph is large and unambiguous.

