- **2**. [8 points] On the axes provided below, sketch the graph of **one possible function** y = f(x), satisfying **all** of the following requirements. Your graph should clearly show the properties listed below to receive full credit.
 - \Box The domain of f is (-5, 6].
 - \Box The range of f is [-6, 4].
 - $\Box f(x) < 0 \text{ for } -5 < x < 2.$
 - \Box f is decreasing on (-5, 2).
 - $\Box f$ is concave up for -5 < x < -2.
 - $\Box f$ is concave down for -2 < x < 1.
 - $\Box f(3) = -1.$
 - \Box f has a constant rate of change for 4 < x < 6.

