- 4. [6 points] On the axes below, sketch the graph of a single function J(t) that satisfies all of the properties below. Clearly indicate any relevant features of your graph.
 - The domain of J(t) is all real numbers except for t = 1.
 - The range of J(t) is $(-\infty, 3)$
 - $\lim_{t \to \infty} J(t) = -2.$
 - $\lim_{t \to -\infty} J(t) = 3.$
 - J(t) has a vertical asymptote at t = 1.

Solution: There are several possible graphs; one possibility that fits all the criteria is shown below.

