- 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  $(-\infty, 3)$
  - $\bullet \lim_{t\to\infty} J(t) = -2.$
  - $\bullet \lim_{t \to -\infty} J(t) = 3.$
  - J(t) has a vertical asymptote at t = 1.

