1. Which of these functions has a slant asymptote? If it exists, find it. If not, explain why it does not exist.

   (a) $y = \dfrac{x^2 - x + 2}{x - 3}$

   (b) $y = \dfrac{5x + 9}{2x^3 + 1}$

2. For the function that has a slant asymptote, use the *slant* asymptote as well as the *vertical* asymptote to sketch the graph.