Examples:
1. Find the tangent lines to the parametric curve given by
   \[ x(t) = t^5 - 4t^3, \quad y(t) = t^2 \]
   at the point (0, 4).
2. Determine the coordinates of the points where the parametric curve given by the equations
   \[ x(t) = t^3 - 3t, \quad y(t) = 3t^2 - 9 \]
   will have horizontal or vertical tangents.
3. Determine the following limit:
   \[ \lim_{x \to 19} \frac{x - 19}{5 - \sqrt{x + 6}}. \]

Individual Questions:
1. Try sketching the parametric curve given by \( x(t) = t - \sin(t), \ y(t) = 1 - \cos(t) \).
2. Consider the parametric curve given by \( x(t) = 2 \cos(3t) - 4 \sin(3t), \ y(t) = 3 \tan(6t) \). Find the equation of the tangent line to this curve when \( t = \frac{\pi}{2} \).
3. Evaluate the following limits:
   (a) \( \lim_{x \to 2} \frac{x^3 - 7x^2 + 10x}{x^2 + 4 - x} \),
   (b) \( \lim_{x \to 0} \frac{x^3 - 3x + 2}{x + 4} \),
   (c) \( \lim_{x \to -4} \frac{\sin(\pi x)}{x^2 - 16} \),
   (d) \( \lim_{x \to -\infty} \frac{5x^2 - 9x + 1}{5 - 3x + 6x^2} \).