Exercises:

- 1. Find the limit if it exists:

 - (a) $\lim_{x\to\infty} \frac{\sin(x)}{15x^3}$ (b) $\lim_{x\to\infty} \frac{2x^3-1}{x^2+5}$ (c) $\lim_{x\to\infty} \frac{xe^x}{x^2-1}$ (d) $\lim_{x\to\infty} \frac{2\ln(x)}{\sqrt{x-5}}$