HW5

- pages 98–102, problems 16,20.
- Find
$$\lim_{x \to +\infty} \frac{10 \cdot 2^x - x^{10}}{2^{x+1} - \sin(x^2)}.$$
- Are the following functions
$$f(x) = \sqrt{x}, \quad h(x) = \sin x$$
uniformly continuous on $[0, \infty)$? Give the full explanations.