Brief solutions to selected problems in homework 08

1. Section 4.2: Solutions, common mistakes and corrections:

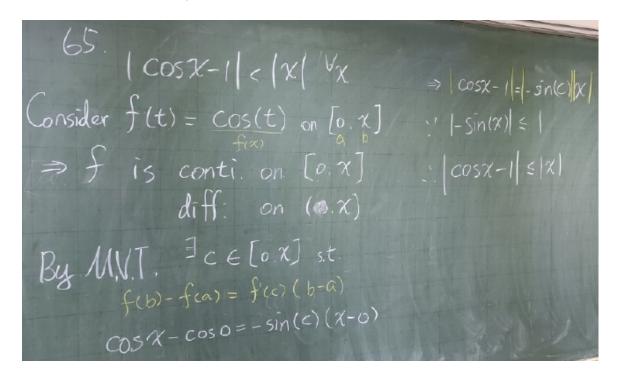


Figure 1: Solution to Section 4.2, problem 65

2. Section 4.3: Solutions, common mistakes and corrections:

74.
$$f'(x) = 3ax^{2} + 2bx + c$$

$$f(x) = 3ax^{2} + 2bx + c$$

$$f(x) = 0. \quad f(x) = -1$$

$$d = 0. \quad a + b + c = -1$$

$$f'(x) = f'(x) = 0$$

$$c = 0. \quad 3a + 2b = 0$$

$$\Rightarrow a = 2. b = -3$$

Figure 2: Solution to Section 4.3, problem 74

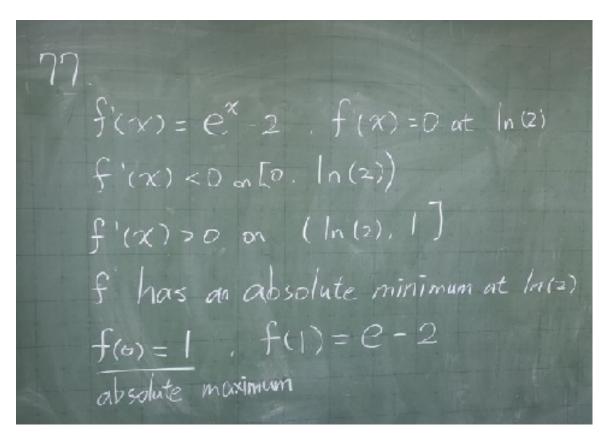


Figure 3: Solution to Section 4.3, problem 77