Calculus II, Spring 2022 (Thomas' Calculus Early Transcendentals 13ed), http://www.math.nthu.edu.tw/~wangwc/

Brief solutions to selected problems in homework week 7

1. Problem 1:

 $o(\Delta \chi) + o(\Delta \gamma) = 0 (\sqrt{\Delta \chi^2 + \delta \gamma^2})$ $\mathcal{E}_1 \Delta X + \mathcal{E}_2 \Delta Y' = "$ 3 Q Dar(1) $\mathcal{E}_{1} \Delta X + \mathcal{E}_{2} \Delta Y =$ X¥ (im (**)=0 and $(\bigstar) = (\pounds)$ to decompose

2. Section 14.4, problem 51:

d X) da function $\left(\right)$ d 8 っ (G dy (X+3X dx J XX-)0 d) o S(x) 0 dx 0 Q 2

Figure 1: Section 14.4, problem 51

Figure 2: Section 14.4, problem 51, continued

2 \bigcirc t \bigcirc 0

Figure 3: Section 14.4, problem 51, continued