MAT 320. Short HW 11b due Wed Nov 27, 2018

Do problems 19.2, 19.4, 22.10, 22.12, from the textbook.

Problem 1. Suppose the function $F : [0, 1] \times [0, 1] \to [0, 1]$ is given by $F(x, y) = f(x) \cdot g(y)$, where f and g are functions $f, g : [0, 1] \to [0, 1]$. Determine necessary and sufficient conditions for f and g, so that F is uniformly continuous.