21C Homework 8

Due Friday May 27

Steinellos = "Calculus and Analytic Geometry", 5th Edition, S.K. Stein and A. Barcellos

Question 1 Steinellos, §10.4, pp 596-597, qq 2, 6, 10, 12, 16, 24, 30, 32

Question 2 Steinellos, §10.5, pp 601-602, qq 2, 4, 8, 10, 18, 30, 34, 38, 42

Question 3 Let (r, θ) be polar coordinates for the plane with origin \mathcal{O} . Let $f(r, \theta) = r$. Find $\lim_{P \to \mathcal{O}} f(P)$ and prove that your answer is correct.

Question 4 Solve and hand in the midterm.