

MATE 3063 assignment 10: sections 15.3, 15.6.

You are responsible for all these problems. Write up ten of your choice.

§15.3: in all exercises plot the region.

103–105. Exercise 8, 11, 13.

106. Choose one of 15–18.

107–109. Choose 3 of 19–27.

110. Exercise 28.

111. Choose one of 29–32.

112. Choose 1 of 35–38.

§15.6:

113. Evaluate $\int_0^1 \int_0^x \int_0^y y \, dz \, dy \, dx$. Sketch the solid and classify it. What are its vertices?

114. Find the mass of the solid of exercise 113 if the density at (x, y, z) is

(a) y . (b) x^2 .

115. Exercise 24.

116. Choose one of 29–32. Sketch the solid.

117. Choose one of 33–34.