

MAT2219 – Cálculo Diferencial e Integral III
Respostas da lista de Exercícios 6

PROF. CLAUDIO GORODSKI

1.

a. $(17\sqrt{17} - 1)\pi/6$

b. $(11\sqrt{33}/2 - 17\sqrt{17}/6)\pi$

c. $\pi\sqrt{3}$

d. $\sqrt{26}$

e. $2\pi(1 - \sqrt{2}/2)$

f. $\pi\sqrt{2}$

g. $5\sqrt{2}A$

h. $\pi\sqrt{2}(b^2 - a^2)$

i. $\pi/2(\ln(\sqrt{2} + 1) + \sqrt{2})$

j. $2\sqrt{3}$

k. $3/8$

2.

a. $\sqrt{3}/8$

b. $4\pi/3$

c. 0

3.

a. -8π

b. -24π

c. 0

d. 0

4. $4\pi/3$

5. $1/2$