

MATH 104 TUTORIAL 2 ANSWERS

1. a. $22/3$ b. $\frac{5\pi}{6} + \frac{9\sqrt{3}}{8}$ c. 16

2. a. 12 b. $83/4$

3. a. $\frac{-1}{x^4+1} + C$ b. $\frac{2}{3} \left(1 - \cos \frac{t}{2}\right)^3 + C$

c. $-\frac{1}{2x} - \frac{1}{4} \sin\left(\frac{2}{x}\right) + C$

4. a. $-\frac{1}{2} \left(7 - \frac{r^5}{10}\right)^4 + C$

b. $2 \sin(\sqrt{t} + 3) + C$ c. $-(x-4)^{-1} - 2(x-4)^{-2} + C$