Respostas da Lista 1 — Substituição:

1. (a) $\dfrac{\left(2+x^4\right)^6}{24}+c$

    (b) $-\dfrac{1}{4}\cos^4(\theta)+c$

    (c) $-\tan\left(\dfrac{1}{x}\right)+c$

2. (a) $\dfrac{1}{3}\left(2x+x^2\right)^{3/2}+c$

    (b) $\dfrac{2}{3}\sqrt{3ax+bx^3}+c$

    (c) $\dfrac{1}{4}\tan^4(\theta)+c$

    (d) $-\dfrac{2}{3}\cos(1+x^{3/2})+c$

    (e) $\dfrac{1}{40}(2x+5)^{10}-\dfrac{5}{36}(2x+5)^9+c$

3. (a) $\dfrac{2^{51}+1}{153}$

    (b) $1-\cos(1)$

    (c) $\dfrac{1}{3}(2\sqrt{2}-1)a^3$

    (d) $\dfrac{10}{3}$