

31. 
$$\begin{cases} 2 \ln |t| + c, & \text{se } n = 1 \\ \frac{t^{1-n}}{(n - 1/2)(1 - n)} + c, & \text{se } n \neq 1 \end{cases}$$

32.  $\frac{3}{5}x^{5/3} + \frac{x^2}{2} - \frac{1}{10}$

33.  $2x - \sin 2x$

34.  $-\frac{1}{x} + x - \frac{3}{2}$

35.  $\frac{\pi(\sqrt{2} - 2)}{8}$

36.  $\cos x + 1$

## SEÇÃO 6.4

1.  $\frac{1}{22}(2x^2 + 2x - 3)^{11} + c$     2.  $\frac{7}{24}(x^3 - 2)^{8/7} + c$     3.  $\frac{5}{8}(x^2 - 1)^{4/5} + c$

4.  $\frac{-5}{9}(4 - 3x^2)^{3/2} + c$     5.  $\frac{1}{6}(1 + 2x^2)^{3/2} + c$     6.  $\frac{3}{8}(e^{2t} + 2)^{4/3} + c$

7.  $\ln(e^t + 4) + c$     8.  $-e^{1/x} - \frac{2}{x} + c$     9.  $\frac{\operatorname{tg}^2 x}{2} + c$

10.  $\frac{\operatorname{sen}^5 x}{5} + c$     11.  $\frac{1}{4}\sec^4 x + c$     12.  $-2 \ln |\cos x| - 5x + c$

13.  $\frac{1}{2}\operatorname{sen} 2e^x + c$     14.  $\frac{1}{4}\operatorname{sen} x^2 + c$     15.  $\frac{-1}{5}\cos(5\theta - \pi) + c$

16.  $\frac{1}{4}(\operatorname{arc sen} y)^2 + c$     17.  $\frac{2}{b} \ln |a + b \operatorname{tg} \theta| + c$     18.  $\frac{1}{4}\operatorname{arc tg} \frac{x}{4} + c$

19.  $\frac{1}{2-y} + c$     20.  $\frac{3}{4}\operatorname{sen}^{4/3} \theta + c$     21.  $(\ln x)^2 + c$

22.  $\frac{\operatorname{senh} 2ax}{a} + 2x + c$     23.  $\frac{1}{9}(3t^2 + 1)^{3/2} + c$     24.  $\frac{2}{3}\operatorname{arc tg} \frac{2(x + 5/2)}{3} + c$

25.  $\frac{-\sqrt{3}}{2} \ln \left| \frac{x + \sqrt{3} - 2}{\sqrt{3} + 2 - x} \right| + c$     26.  $\frac{1}{4}\operatorname{arc tg} \frac{e^x}{4} + c$

27.  $2\sqrt{x+3} - 2 \ln \left| \frac{2 + \sqrt{x+3}}{2 - \sqrt{x+3}} \right| + c$     28.  $\frac{-3}{\ln 3x} + c$

29.  $\frac{-1}{4} \cos 4x + x + c$

30.  $\frac{2^{x^2}}{\ln 2} + c$

31.  $\frac{1}{6} e^{3x^2} + c$

32.  $\frac{-1}{2+t} + c$

33.  $\ln |\ln t| + c$

34.  $\frac{-4}{3} (1 - 2x^2)^{3/2} + c$

35.  $\frac{1}{12} (e^{2x} + 2)^6 + c$

36.  $\sqrt{4t^2 + 5} + c$

37.  $-\ln |3 - \sin x| + c$

38.  $\frac{-1}{2(1+\sqrt{v})^4} + c$

39.  $\frac{2}{7} (1+x)^3 \sqrt{1+x} - \frac{4}{5} (1+x)^2 \sqrt{1+x} + \frac{2}{3} (1+x) \sqrt{1+x} + c$

40.  $\frac{-1}{5} e^{-x^5} + c$

41.  $\frac{1}{2} \operatorname{sen} t^2 + c$

42.  $\frac{8}{27} (6x^3 + 5)^{3/2} + c$

43.  $\frac{1}{3} (\operatorname{sen} 2\theta)^{3/2} + c$

44.  $\frac{1}{5} \operatorname{tg} (5x + 3) + c$

45.  $\frac{-1}{2(5 - \cos \theta)^2} + c$

46.  $\ln |\operatorname{sen} u| + c$

47.  $-\frac{2}{5a} (1 + e^{-at})^{5/2} + c$

48.  $2 \operatorname{sen} \sqrt{x} + c$

49.  $\frac{2}{5} (t-4)^2 \sqrt{t-4} + \frac{8}{3} (t-4) \sqrt{t-4} + c$

50.  $\frac{-1}{6} \cos 2x^3 + x^4 + c$

## SEÇÃO 6.6

1.  $\frac{-x}{5} \cos 5x + \frac{1}{25} \operatorname{sen} 5x + c$

2.  $(x-1) \ln (1-x) - x + c$

3.  $\frac{e^{4t}}{4} \left( t - \frac{1}{4} \right) + c$

4.  $\frac{(x+1)}{2} \operatorname{sen} 2x + \frac{1}{4} \cos 2x + c$

5.  $\frac{x^2}{2} \left[ \ln 3x - \frac{1}{2} \right] + c$

6.  $\cos^2 x \operatorname{sen} x + \frac{2 \operatorname{sen}^3 x}{3} + c$

7.  $\frac{2}{5} e^x \left[ \operatorname{sen} \frac{x}{2} + 2 \cos \frac{x}{2} \right] + c$

8.  $\frac{2}{3} x \sqrt{x} \ln x - \frac{4}{9} x \sqrt{x} + c$