**5.5: 3, 4, 9, 11, 12, 16, 19, 22, 25, 36, 51, 52, 81 y 82**

3. $f(x) = 2\sqrt{x^3 + 1} + c$

4. $f(x) = \frac{1}{18(1-6t)^3} + c$

9. $f(x) = \frac{(3x-2)^{21}}{63} + c$

11. $f(x) = \frac{1}{3}\sqrt{(2x + x^2)^3} + c$

12. $g(x) = -\frac{1}{6(x^2+1)^3} + c$

16. $f(x) = \frac{\ln(x^2+1)}{2} + c$

19. $f(x) = \frac{(\ln(x))^3}{3} + c$

22. $f(x) = -\frac{2}{3}\cos\left(1 + x^{\frac{3}{2}}\right) + c$

25. $f(x) = \frac{2(1+e^x)}{3} + c$

36. $f(x) = -ln|1 + \cos(x)| + c$

51. $\int_0^2 (x-1)^{25} dx = 0$

52. $\int_0^7 \sqrt{4 + 3x} dx = 26$

81. $\int_0^2 f(2x)\, dx = 5$

82. $\int_0^3 x.f(x^2)\, dx = 2$