Stewart Section 7-1 Homework Hints:

3. $u = x \quad v' = \cos(5x)$

4. $u = y \quad v' = e^{0.2y}$

5. $u = t \quad v' = e^{-3t}$

6. $u = x - 1 \quad v' = \sin(\pi x)$

7. $u = x^2 + 2x \quad v' = \cos(x)$ Use tabular method or repeated iterations

8. $u = t^2 \quad v' = \sin(\beta t)$ Use tabular method or repeated iterations

9. $\ln\left(\sqrt[3]{x}\right) = \ln\left(x^{\frac{1}{3}}\right) = \frac{1}{3} \cdot \ln(x)$; $u = \ln(x) \quad v' = \frac{1}{3}$

10. $u = \arcsin(x) \quad v' = 1$

11. $u = \arctan(4t) \quad v' = 1$

12. $u = \ln(p) \quad v' = p^5$

13. $u = t \quad v' = \sec^2(t)$

14. $u = s \quad v' = 2^s$

23. $u = x \quad v' = \cos(\pi x)$

24. $u = x^2 + 1 \quad v' = e^{-x}$ Use tabular method or repeated iterations

27. $u = \ln(r) \quad v' = r^3$

28. $u = t^2 \quad v' = \sin(2t)$ Use tabular method or repeated iterations