

Problem Set 85

2. $\frac{1}{147\pi} \frac{\ln}{\sec}$

4. $a = 2; \quad b = 4$

6. $c = 2$

8. No. The function is not everywhere differentiable on the given interval.

10. $c = 0$

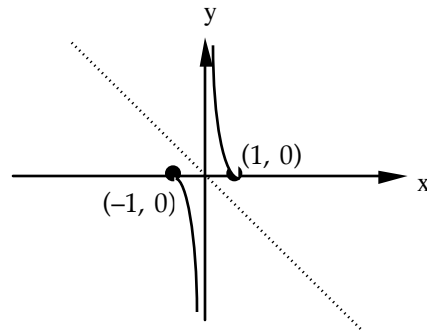
12. $x^x(1 + \ln x)$

14. $3x + \frac{3}{2}\sin(2x) + C$

16. $-\cos x + \frac{1}{3}\cos^3 x + C$

18. $e^{\tan x} + C$

20.



22. $\frac{x}{\sqrt{9-x^2}} + \arcsin \frac{x}{3} + \frac{x+2}{2(1+x)^{3/2}} + 3^x \ln 3 - \frac{3}{x \ln 47}$

24. D