

Answers to Even-Numbered ExercisesSECTION 8.2

2. $y = \tan(x^2 + C)$

4. $y = \pm \sqrt{\frac{\ln(1+x^4) + C}{2}}$

6. $y = Ce^{-x^2/2}$ (including $C = 0$ by inspection)

8. $y = \tan\left(x + \frac{x^2}{2} + C\right)$

10. $y = Ce^{\sin x}$ (including $C = 0$ by inspection)

12. $y = -\ln\left|1 - 2x - \frac{1}{2}x^2\right|$

SECTION 8.4

2. $y = \frac{1}{2} + Ce^{-x^2}$

4. $y = \frac{1}{4} + Ce^{-2x}$

6. $y = e^{-x} \ln|1 - e^x| + Ce^{-x}$

8. $y = x^2 - 2x$

10. $y = 2 - e^{-t}$