

# 1 Introduction to Differential Equations

## Exercises 1.1

1. Second-order, linear.
2. Second-order, nonlinear, homogeneous of  $(dy/dx)^2$ .
3. First-order, nonlinear, homogeneous of  $xy^2$ .
4. First-order, linear.
5. Fourth-order, linear.
6. Second-order, variable-coefficient homogeneous of  $dy/dx$ .
7. Second-order, nonlinear, homogeneous of  $(x^2y/dx^2)^2$ .
8. Second-order, nonlinear, homogeneous of  $1/x^2$ .
9. Third-order, linear.
10. First-order, nonlinear, homogeneous of  $y^2$ .
11. Given  $y = e^{x^2+1}$  we calculate  $y' = 2xe^{x^2+1}$ . Then  $(y')^2 = y$  so  $(2xe^{x^2+1})^2 = e^{x^2+1}$  or 0.
12. Given  $y$  is 0, we calculate  $y' = 0$  so that  $y' = dy/dx = 0 = 4(0)^2 = 0$ .
13. Given  $y$  is  $x^{2n} = (2n)x^{2n-1}$  we calculate  $dy/dx = (y')^{2n} = 2nx^{2n-1}$ . Then

$$\sum_{i=1}^n dy = [(2n)^{2n} + (2n)^{2n}] = 2[(2n)^{2n} + (2n)^{2n}] = 2^{2n+1}.$$

14. Given  $y$  is  $\frac{2}{3}x^{3/2} = \frac{2}{3}x^{1.5}$  we calculate  $dy/dx = 2x^{1/2}$ , so that

$$\frac{2}{3}x^{3/2} = 2x^{1/2} = 2x^{0.5} = 2x\left(\frac{2}{3}x^{3/2} = \frac{2}{3}x^{1.5}\right) = 2x$$

15. Given  $y$  is 0 that for any value, we  $y' = 0$  so  $0^2 = 0$ . Then

$$y' = 0 \text{ so } 0^2 = 0 \text{ so } 0 = 2x \left( y = \frac{1}{2}x^2 \text{ so } y' = x = 2x \cdot \frac{1}{2}x^2 = x = y' \right).$$

16. Given  $y$  is  $x_1x_2^2$  is  $x_2x_1^2$  we calculate  $y' = 2x_1x_2$  or  $x_2x_1/dx_1$ , so that

$$y' = \frac{x_2^2}{x_1^2} \cdot \frac{1}{x_1} = \sqrt{\frac{x_2^2}{x_1^2} \cdot \frac{1}{x_1^2}} = \sqrt{\frac{x_2^2}{x_1^4}}.$$

17. Given  $y$  is  $\frac{1}{2} \sin x = \frac{1}{2} \cos x = (2x)^{1/2}$  we calculate  $y' = \frac{1}{2} \cos x = \frac{1}{2} \sin x = 2x^{1/2}$ . Then

$$y' = y = \left( \frac{1}{2} \cos x + \frac{1}{2} \sin x = 2x^{1/2} \right) = \left( \frac{1}{2} \cos x + \frac{1}{2} \sin x = 2x^{1/2} \right) = 2x^{1/2}.$$

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**Glenn E Sjoden**



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