1. $$yy' + y^2 = \cos x$$

2. $$2yp\frac{dp}{dy} = 3p^2 + 4y^2$$

3. $$xy' + y = xy^2 \ln x$$

4. $$(2xy^2 - y)dx + xdy = 0$$

5. $$y' = 2xy + y^3$$

6. $$(xy^3 + \ln x)dx = y^2 dy$$

7. $$(x - y)y' = y^2$$

8. $$y' = 2xy + x^3$$

9. $$(y' - 2xy)\sqrt{y} = x^3$$

10. $$(x^2 - xy)y' = y^4$$

11. $$(x^3 - 3xy)dx + (x^2 + 3)dy = 0$$

12. $$y = xy' + \sqrt{ay}$$

13. $$xy' - \frac{y}{x+1} - x = 0$$

14. $$(1 - x^2)y' + xy = a$$

15. $$y' - y\frac{2x-1}{x^2} = 1$$

16. $$y' + y\cos x = \sin x \cos x$$

17. $$yy' + y^2 = \cos x$$

18. $$2yp\frac{dp}{dy} = 3p^2 + 4y^2$$

19. $$xy' + y = xy^2 \ln x$$

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32. $$y' + y\cos x = \sin x \cos x$$

33.

$$yy' + y^2 = \cos x$$

34.

$$2yp\frac{dp}{dy} = 3p^2 + 4y^2$$

35.

$$xy' + y = xy^2 \ln x$$

36.

$$(2xy^2 - y)dx + xdy = 0$$

37.

$$y' = 2xy + y^3$$

38.

$$(xy^3 + \ln x)dx = y^2 dy$$

39.

$$(x - y)y' = y^2$$

40.

$$y' = 2xy + x^3$$

41.

$$(y' - 2xy)\sqrt{y} = x^3$$

42.

$$(x^2 - xy)y' = y^4$$

43.

$$(x^3 - 3xy)dx + (x^2 + 3)dy = 0$$

44.

$$y = xy' + \sqrt{ay}$$

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$$xy' - \frac{y}{x+1} - x = 0$$

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