

បញ្ជីការដោះស្រាយសំខាន់សំខាន់ជាមួយ

ចំណាំ 1. – ចំណាំ 54. ឈរតាមលទ្ធផល ដោះស្រាយសំខាន់សំខាន់ជាមួយ

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|---|---|
| 1. $y'' + 16y = e^{3x}$ | 2. $y'' + 3y' - 10y = x(e^x + 1)$ |
| 3. $y'' - y' - 6y = 2 \sin 3x$ | 4. $y'' - y' - 2y = 3x + 4$ |
| 5. $y'' + y' + y = \sin^2 x$ | 6. $4y'' + 4y' + y = 3xe^x$ |
| 7. $2y'' + 4y' + 7y = x^2$ | 8. $y'' + 2y' + 5y = e^x \sin x$ |
| 9. $y'' + 9y = 2 \cos 3x + 3 \sin 3x$ | 10. $y''' + 4y' = 3x - 1$ |
| 11. $y^{(5)} + 5y^{(4)} - y = 17$ | 12. $2y'' + 4y' + 7y = x^2$ |
| 13. $y''' + y' = 2 - \sin x$ | 14. $y^{(4)} + 8y' = 4$ |
| 15. $y''' + 4y'' + 3y' = x^2 \cos x - 3x$ | 16. $y''' - y = e^x + 7$ |
| 17. $y'' + y = \sin x + x \cos x$ | 18. $y'' + 9y = 2x^2 e^{3x} + 5$ |
| 19. $y''' + 10y'' + 25y' + 14y = e^x$ | 20. $(D^2 + 25)y = 20 \sin 5x$ |
| 21. $y'' + 6y' + 8y = 3e^{-2x} + 2x$ | 22. $(D^2 + 4)y = 4 \cos x + 3 \sin x - 8$ |
| 23. $(D^2 + 25)y = 6 \sin x$ | 24. $(D^2 + 4)y = \cos^2 x$ |
| 25. $(D^2 - 4)y = 4 \cos x + 3e^x - 8$ | 26. $(D^2 - 4)y = e^{2x} + 8$ |
| 27. $(D^2 + 1)y = \sec x$ | 28. $(D^2 - 4)y = \frac{e^{2x}}{x}$ |
| 29. $(D^2 + 1)y = \tan x$ | 30. $(D^2 + 1)y = \sec x \tan x$ |
| 31. $(D^2 + 1)y = \sec^2 x$ | 32. $(D^2 + 3D + 2)y = \frac{1}{1 + e^x}$ |
| 33. $(D^2 - 2D + 1)y = \frac{e^x}{1 + x^2}$ | 34. $(D^2 + 3D + 2)y = \sin(e^x)$ |
| 35. $(D^2 - 2D + 1)y = e^t \arctan t$ | 36. $(D^2 + 2D + 1)y = e^{-t} \ln t$ |
| 37. $(3D^2 - 6D + 6)y = e^x \sec x$ | 38. $(4D^2 - 4D + 1)y = e^{x/2} \sqrt{1 - x^2}$ |
| 39. $(2D^2 + 2D + 1)y = 4\sqrt{x}$ | 40. $(D^2 + 1)y = \csc^2 x$ |
| 41. $(D^2 - 3D + 2)y = (1 + e^{2x})^{-1/2}$ | 42. $(D^2 + 2D + 1)y = (e^x - 1)^{-2}$ |
| 43. $(D^2 - 3D + 2)y = \cos(e^{-x})$ | 44. $(D^2 - 1)y = 2e^x(1 + e^{-2x})^{-2}$ |

45. $(D^2 - 3D + 2)y = \frac{e^{2x}}{1 + e^{2x}}$

46. $(D^2 + 1)y = \csc x \cot x$

47. $(D^2 + 1)y = \csc x \sec^2 x$

48. $(D^2 - 1)y = e^{-2x} \sin(e^{-x})$

49. $(D^2 + 2D + 2)y = e^x \csc x$

50. $(D^2 - 1)y = 2(1 - e^{-2x})^{-1/2}$

51. $y''' + y' = \tan x$

52. $y''' + 4y' = \sec 2x$

53. $y''' - 3y'' + 3y' - y = \frac{2e^x}{x^2}$

54. $y''' + y' = \csc x$