

Integration Review

1. $\int e^{2x} dx$

2. $\int e^{4x} dx$

3. $\int xe^{x^2} dx$

4. $\int x^2 e^{x^3} dx$

5. $\int e^{-3x} dx$

6. $\int e^{-5x} dx$

7. $\int xe^{-3x^2} dx$

8. $\int xe^{-5x^2} dx$

9. $\int \frac{e^{\sqrt{x}}}{\sqrt{x}} dx$

10. $\int xe^{x^2} dx$

11. $\int \frac{1}{1+x} dx$

12. $\int \frac{1}{5+x} dx$

13. $\int \frac{1}{4+x} dx$

14. $\int \frac{1}{9+x} dx$

15. $\int \frac{1}{1+4x} dx$

16. $\int \frac{1}{1+9x} dx$

17. $\int \frac{1}{1+x^2} dx$

18. $\int \frac{1}{1+x^2} dx$

19. $\int \frac{1}{16+x^2} dx$

20. $\int \frac{1}{36+x^2} dx$

21. $\int \frac{1}{1+16x^2} dx$

22. $\int \frac{1}{1+36x^2} dx$

23. $\int \frac{1}{25+9x^2} dx$

24. $\int \frac{1}{4+25x^2} dx$

25. $\int \frac{1}{\sqrt{3+x}} dx$

26. $\int \frac{1}{\sqrt{2+x}} dx$

27. $\int \frac{1}{\sqrt{1+5x}} dx$

28. $\int \frac{1}{\sqrt{1+3x}} dx$

29. $\int \frac{1}{\sqrt{4+x}} dx$

30. $\int \frac{1}{\sqrt{16+x}} dx$

31. $\int \frac{1}{9-x} dx$

32. $\int \frac{1}{49-x} dx$

33. $\int \frac{1}{9-25x} dx$

34. $\int \frac{1}{4-25x} dx$

35. $\int \frac{1}{\sqrt{1-9x^2}} dx$

36. $\int \frac{1}{\sqrt{1-49x^2}} dx$

37. $\int \frac{1}{\sqrt{9-x^2}} dx$

39. $\int \frac{1}{\sqrt{9-49x^2}} dx$

41. $\int \frac{x}{\sqrt{1-x^4}} dx$

43. $\int \frac{1-2x+x^2}{x^2} dx$

45. $\int \frac{x+4}{x^2+4} dx$

47. $\int \left(2 + \frac{1}{x}\right) \left(5 - \frac{1}{x}\right) dx$

49. $\int \frac{1}{x\sqrt{4x^2-1}} dx$

51. $\int \frac{1}{x\sqrt{x^2-4}} dx$

53. $\int \frac{1}{x\sqrt{9x^2-25}} dx$

38. $\int \frac{1}{\sqrt{49-x^2}} dx$

40. $\int \frac{1}{\sqrt{49-9x^2}} dx$

42. $\int \frac{x^2}{\sqrt{1-x^6}} dx$

44. $\int \frac{1+5x-x^2}{x^2} dx$

46. $\int \frac{x+25}{x^2+25} dx$

48. $\int \left(5 - \frac{1}{x}\right) \left(3 + \frac{1}{x}\right) dx$

50. $\int \frac{1}{x\sqrt{16x^2-1}} dx$

52. $\int \frac{1}{x\sqrt{x^2-16}} dx$

54. $\int \frac{1}{x\sqrt{49x^2-16}} dx$