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**Grade: XII MATHEMATICS-WORKSHEET(INTEGRATION)**

**I. Integrate the following with respect to ‘x’:**

1. (i)  (ii)  (iii) 

2. (i)  (ii)  (iii) 

3. (i)  (ii)  (iii) 

4. (i) sin(2x+4) (ii) cos(5-2x)

5. (i)  (ii) 

6. (i) sec(7x-8) tan(7x-8) (ii) cosec(2-x) cot(2-x)

7. (i)  (ii) 

8. (i)  (ii) 

9. (i)  (ii)  (iii) 

10. (i)  (ii)  (iii) 

**II. Integrate :**

11. (i) (ii) 

12. (i)  (ii) 

13. (i)  (ii) 

14. 

15. 

16. 

**III. Integrate :**

17. (i)  (ii)  (iii) 

18. (i)  (ii)  (iii) 

19. (i)  (ii)  (iii) 

20. (i)  (ii) 

21. (i)  (ii) 

22. (i)  (ii) 

23. (i)  (ii) 

24. (i)  (ii) 

25. (i)  (ii) 

**IV. Integrate the following with respect to x:**

26. (i)  (ii)  (iii) 

27. (i)  (ii) 

28. (i) (ii) 

29. (i)  (ii) 

30. (i)  (ii) 

31. (i)  (ii) 

32. (i)  (ii) 

33. (i)  (ii) 

34. (i)  (ii) 

**V. Integrate the following with respect to x:**

35. (i)  (ii)  (iii)  (iv) 

36. (i)  (ii)  (iii) 

37. (i)  (ii) 

38. (i)  (ii) 

39. (i)  (ii) 

40. (i)  (ii) 

41. (i)  (ii) 

42. (i)  (ii) 

43. (i)  (ii) 

**VI. Integrate the following:**

44. (i)  (ii)  (iii) 

45. (i)  (ii) 

46. (i)  (ii) 

47. (i)  (ii) 

48. (i)  (ii) 

49. (i)  (ii) 

50. (i)  (ii)  (iii)  (iv) 