Найти интеграл

1. $\int \frac{x^3 - 17}{(x^2 - 4x + 3)(5x - 2)}\, dx$

2. $\int \frac{x^3 + 2x^2 + 3}{(x - 1)(x - 2)(x - 3)}\, dx$

3. $\int \frac{4x^4 + 2x^2 - x - 3}{x(x - 1)(x + 1)}\, dx$

4. $\int \frac{x^3 - 3x^2 - 12}{(x - 4)(x - 3)(x - 2)}\, dx$

5. $\int \frac{x^3 + 6x^2 + 13x + 9}{(x + 1)(x + 2)^2}\, dx$

6. $\int \frac{x^5 - 3x^3 + 1}{(x^2 - x)(5x - 2)}\, dx$

7. $\int \frac{2x^5 - 8x^3 + 3}{(x^2 - 2x)(5x - 2)}\, dx$

8. $\int \frac{x^3 - 5x^2 + 5x + 23}{(x - 1)(x + 1)(x - 5)}\, dx$

9. $\int \frac{2x^4 - 5x^2 - 8x - 8}{x(x - 2)(x + 2)}\, dx$

10. $\int \frac{2x^3 + 5}{(x^2 - x - 2)(2x - 2)}\, dx$

11. $\int \frac{x^3 + 6x^2 + 13x + 9}{(x+1)(x+2)^2}\,dx$

12. $\int \frac{x^3 - 8}{(x^2 - 6x + 8)^2}\,dx$

13. $\int \frac{x^3 + 2x^2 + 3}{(x-1)(x-2)(x-3)}\,dx$

14. $\int \frac{x^4 - 81}{(x^2 - x - 42)(2x-3)}\,dx$

15. $\int \frac{x^3 + 6x^2 + 11x - 10}{(x-2)(x+2)^2}\,dx$

16. $\int \frac{x^3 - 6x^2 + 13x - 6}{(x+2)(x-2)^3}\,dx$

17. $\int \frac{x^3 + 5x^2 + 5x + 23}{x(x-2)(x+2)}\,dx$

18. $\int \frac{3x^3 + 25}{(10x-1)(x^2 - x - 2)}\,dx$

19. $\int \frac{x^5 - x^3 + 1}{(x^2 - x)^2}\,dx$

20. $\int \frac{2x^4 + 2x^3 - 41x^2 + 20}{x(x-5)(x+5)}\,dx$

21. $\int \frac{2x^3 + x + 1}{x^3(x+1)}\,dx$

22. $\int \frac{x^3 - 17}{(x-3)(x^2-4x+3)}\,dx$

23. $\int \frac{x^3 + 6x^2 + 18x - 4}{(x-2)(x+2)^2}\,dx$

24. $\int \frac{3x^3 + 9x^2 + 10x + 2}{(x-1)(x+2)^2}\,dx$

25. $\int \frac{2x^3 - 40x - 8}{(x^2-4x+3)(x-3)}\,dx$

26. $\int \frac{x^3 - 17}{(x^2+4x+3)(5x-2)}\,dx$

27. $\int \frac{x^3 - 2x^2 + 3}{(x+1)(x-2)(x-3)}\,dx$

28. $\int \frac{4x^4 + 2x^2 - x - 3}{x(x-2)(x+1)}\,dx$

29. $\int \frac{x^3 + 3x^2 - 12}{(x-4)(x+3)(x-2)}\,dx$

30. $\int \frac{x^3 - 6x^2 + 13x + 9}{(x-1)(x+2)^2}\,dx$

31. $\int \frac{x^5 - 3x^3 + 1}{(x^2+x)(x-2)}\,dx$

32. $\int \frac{2x^5 + 8x^3 + 3}{(x^2+2x)(x+2)}\,dx$

33. $\displaystyle\int \frac{x^3+5x^2+5x-23}{(x-1)(x+1)(x+5)}\,dx$

34. $\displaystyle\int \frac{2x^4+5x^2-8x-8}{x(x-1)(x+2)}\,dx$

35. $\displaystyle\int \frac{2x^3-5}{(x^2-x-2)(x-2)}\,dx$

36. $\displaystyle\int \frac{x^3+6x^2-13x+9}{(x+1)^2(x+2)}\,dx$

37. $\displaystyle\int \frac{x^3-8}{(x^2+6x+8)^2}\,dx$

38. $\displaystyle\int \frac{x^3+2x^2-3}{(x+1)(x+2)(x-3)}\,dx$

39. $\displaystyle\int \frac{x^4-81}{(x^2+x-42)(x-3)}\,dx$

40. $\displaystyle\int \frac{x^3-6x^2-11x-10}{(x-2)^2(x+2)}\,dx$

41. $\displaystyle\int \frac{x^3-6x^2+13x+6}{(x+2)^2(x-3)}\,dx$

42. $\displaystyle\int \frac{x^3-5x^2+5x-23}{x(x-2)(x+3)}\,dx$

43. $\displaystyle\int \frac{3x^3+25}{(x-10)(x^2-x-2)}\,dx$

44. $\displaystyle\int \frac{x^5 - x^3 + 1}{(x^2 - x)(x + 1)}\, dx$

45. $\displaystyle\int \frac{2x^4 + 2x^3 - x^2 + 20}{x(x - 3)(x + 3)}\, dx$

46. $\displaystyle\int \frac{2x^3 + x + 1}{x^3(x - 1)}\, dx$

47. $\displaystyle\int \frac{x^3 + 17}{(x - 3)(x^2 + 4x + 3)}\, dx$

48. $\displaystyle\int \frac{x^3 + 6x^2 + 18x - 4}{(x - 2)^2(x + 2)}\, dx$

49. $\displaystyle\int \frac{3x^3 + 9x^2 + 10x + 2}{(x - 1)^2(x + 2)}\, dx$

50. $\displaystyle\int \frac{2x^3 - 40x + 8}{(x^2 + 4x + 3)(x + 3)}\, dx$