Трећи домаћи задатак из Математике 2

Израчунати интеграле:

1. $\int \frac{dx}{2x^2-4x+9}$
2. $\int \frac{x-5}{x^2-2x+2}\,dx$
3. $\int \frac{x^3}{x^2+x+\frac{1}{2}}$
4. $\int \frac{dx}{x(x^2+2x+10)}$
5. $\int \frac{x^4+5x^2-3x+1}{x^2-4x+4}\,dx$
6. $\int \frac{dx}{(x+1)^2(x^2+1)}$
7. $\int \frac{dx}{(x^2+2)^2}$
8. $\int \frac{1}{x^4-2x^2+1}\,dx$
9. $\int \frac{x\,dx}{(x^2-x+1)^3}$
10. $\int \frac{x^3+4x^2-2x+1}{x^4+x}\,dx$
11. $\int \frac{dx}{(x+2)^2(x+3)^2}$
12. $\int \frac{x^5+x^4-8}{x^3-4x}\,dx$
13. $\int \frac{2x^2+x-13}{x^3+4x^2-x-4}\,dx$
14. $\int \frac{x^3+8}{x^2+4x+12}\,dx$
15. $\int \frac{5x^2-12}{(x^2-6x+13)^2}\,dx$
16. $\int \frac{2x+5}{x^3-x^2-5x-3}\,dx$
17. $\int \frac{x^3+3}{(x+1)(x^2+1)^2}\,dx$
18. $\int \frac{6x^2+7x+18}{x^3+2x-12}\,dx$
19. $\int \frac{3-4x}{(1-2\sqrt{x})^2}\,dx$
20. $\int \frac{(\sqrt{x}+1)^2}{x^3}\,dx$
21. $\int \frac{dx}{\sqrt{x^2+x+1}}$
22. $\int \frac{5x-1}{\sqrt{x-x^2}}\,dx$
23. $\int \sqrt{2x^2+4x+1}dx$
24. $\int \frac{3x^3+5}{\sqrt{x^2+8x+12}}\,dx$
25. $\int \frac{1-\sqrt[3]{2x}}{\sqrt{2x}}\,dx$
26. $\int \frac{dx}{(\sqrt[3]{x^2}+\sqrt[3]{x})^2}\,dx$
27. $\int \sqrt{x}\sqrt{2\sqrt{x}+5}\,dx$
28. $\int \frac{dx}{\sqrt[4]{5-x}+\sqrt{5-x}}$
29. $\int \frac{x+1}{(x^2+1)^{\frac{3}{2}}}$
30. $\int \frac{2x+1}{\sqrt{(4x^2-2x+1)^3}}\,dx$
31. $\int \frac{x\,dx}{\sqrt{3x+2}+3}$
32. $\int \frac{x^2+3x}{\sqrt[3]{x-1}}\,dx$
33. $\int \sqrt{\frac{8x+2}{2x-3}}\,dx$