

## ZADACI ZA SAMOSTALNI RAD 2

1) Rešiti sledeće integrale:

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

$$2. \int \frac{x^2-5x+9}{x^2-5x+6} dx$$

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

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

$$5. \int \frac{8x^2-12x-6}{x^3-x^2-6x} dx$$

$$6. \int \frac{2x^3-4x^2+x-1}{(x-1)^3(x+1)} dx$$

$$7. \int \frac{8x^3-13x^2+2x-15}{x^4-3x^3+x^2-3x} dx$$

$$8. \int \frac{x^2-2x+2}{x^3-2x^2+x} dx$$

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

$$10. \int \frac{x^3-1}{4x^3-1} dx$$

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

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

$$13. \int \frac{3x-2}{2x^2-3x+4} dx$$

$$14. \int \frac{x+1}{x^3+x^2-2x} dx$$

$$15. \int \frac{dx}{x^2+5x}$$

$$16. \int \frac{38x+86}{x^2+7x+12} dx$$

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

$$18. \int \frac{x^3 dx}{x^2+x+1}$$

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

$$20. \int \frac{x^4}{(x+1)^3} dx$$

$$21. \int \frac{x^5+x^4-2}{x^4-4x^2+4} dx$$

$$22. \int \frac{e^{3x}(10-2e^{3x})}{2e^{6x}-10e^{3x}+12} dx$$