

Oblast definisanosti funkcije

Odrediti oblast definisanost funkcije:

$$1. y = \frac{x+3}{x-5}$$

$$2. y = \frac{x}{x+2}$$

$$3. y = \frac{x}{x^2+4}$$

$$4. y = \frac{x+6}{x^2-4}$$

$$5. y = \frac{3x+4}{x^2-6x+8}$$

$$6. y = \frac{3x-1}{x^2-4x+3}$$

$$7. y = \frac{x^2-16}{x^2-5x+4}$$

$$8. f(x) = \frac{x^2-4x+3}{x^2-6x+5}$$

$$9. y = \frac{x^2-2x}{x^2-3x+2}$$

$$10. y = \sqrt{x-2}$$

$$11. y = \sqrt{3x+2}$$

$$12. y = \sqrt[4]{1-x}$$

$$13. y = \sqrt{9-x^2}$$

$$14. y = \sqrt[8]{2x-x^2}$$

$$15. y = \sqrt[6]{x^2-3x+2}$$

$$16. y = \sqrt{12+x-x^2}$$

$$17. y = \sqrt[3]{x^2-5x+6}$$

$$18. y = \sqrt[5]{5-x}$$

$$19. y = \sqrt{\frac{3+x}{3-x}}$$

$$20. y = \sqrt{x - \frac{1}{x}}$$

$$21. y = \sqrt{\frac{x+5}{4x-x^2-3}}$$

$$22. y = \sqrt{\frac{x^2+3x-4}{6-x-x^2}}$$

$$23. y = \frac{\sqrt{1-x^2}}{x}$$

$$24. y = \frac{2x-1}{\sqrt{x-2}}$$

$$25. y = \frac{x}{\sqrt{2+x-x^2}}$$

$$26. y = \frac{x}{\sqrt{x-3}} + \sqrt{x+1}$$

$$27. y = 2x - \sqrt{x^2-4x}$$

$$28. y = \sqrt{x-2} + \sqrt{12+x-x^2}$$

$$29. y = \sqrt{x-3} + \sqrt[4]{5-x}$$

$$30. y = 2 - x^2 + \sqrt[5]{x^2-9}$$

$$31. y = 2^{\frac{x}{x-2}}$$

$$32. y = 2^{\sqrt{3x-x^2}}$$

$$33. y = 4^{\sqrt{2x+3}}$$

$$34. y = \log_2 x$$

$$35. y = \log_{\frac{1}{2}} x$$

$$36. y = \log_3 (x+5)$$

$$37. y = \lg(x-2) + \lg(x+2)$$

$$38. y = \log(x^2-4)$$

$$39. y = \log_4(x^2-4x)$$

$$40. y = \log(2x^2-x-6)$$

$$41. y = \log_2(4-x^2) - \sqrt{36-x^2}$$

$$42. y = \log_2(-2x^2+5x+3) + \log_{\frac{1}{3}}(x^2-2x)$$

$$43. y = \frac{\log_2(3x^2-2x-8)}{x-5}$$

$$44. y = \frac{\sqrt{9-x^2}}{\log(3x-5)}$$

$$45. y = \log \frac{x^2-4x+3}{x^2-6x+8}$$

$$46. f(x) = \arccos \frac{x-2}{2x}$$

$$47. f(x) = \sqrt{3-x} + \arcsin \frac{3-2x}{5}$$

$$48. y = \sqrt{4-x^2} + \arcsin \frac{x+1}{2x+1}$$

$$49. y = \arccos \frac{x}{1+x} + \sqrt{1-x^2}$$

$$50. y = \sqrt{\log(5x-x^2)}$$

$$51. y = \log \frac{x-1}{2x+7} + \sqrt{x^2-4} + \sin \frac{x}{2}$$

$$52. f(x) = \frac{\sqrt{5-x}}{\ln^2(x+2)}$$

rešenje:

$$1. x \in (-\infty, 5) \cup (5, \infty)$$

$$2. x \in (-\infty, -2) \cup (-2, \infty)$$

$$3. x \in \mathbb{R}$$

$$4. x \in (-\infty, -2) \cup (-2, 2) \cup (2, \infty)$$

$$5. x \in (-\infty, 2) \cup (2, 4) \cup (4, \infty)$$

$$6. x \in (-\infty, 1) \cup (1, 3) \cup (3, \infty)$$

$$7. x \in (-\infty, 1) \cup (1, 4) \cup (4, \infty)$$

$$8. x \in (-\infty, 1) \cup (1, 5) \cup (5, \infty)$$

$$9. x \in (-\infty, 1) \cup (1, 2) \cup (2, \infty)$$

$$10. x \geq 2$$

$$11. x \geq -\frac{2}{3}$$

$$12. x \leq 1$$

$$13. x \in [-3, 3]$$

$$14. x \in [0, 2]$$

$$15. x \in (-\infty, 1] \cup [2, \infty)$$

$$16. x \in (-\infty, -3] \cup [4, \infty)$$

$$17. x \in \mathbb{R}$$

$$18. x \in \mathbb{R}$$

$$19. x \in (-\infty, -3] \cup (3, \infty)$$

$$20. x \in [-1, 0] \cup [1, \infty)$$

$$21. x \in (-\infty, -5] \cup (1, 3)$$

$$22. x \in [-4, -3] \cup [1, 2)$$

$$23. x \in [-1, 0) \cup (0, 1]$$

$$24. x > 2$$

$$25. x \in (-1, 2)$$

$$26. x \in (3, \infty)$$

$$27. x \in [0, 4]$$

$$28. x \in [2, 4]$$

$$29. x \in [3, 5]$$

$$30. x \in \mathbb{R}$$

$$31. x \in (2, \infty)$$

$$32. x \in [0, 3]$$

$$33. x \in [-\frac{3}{2}, \infty)$$

$$34. x > 0$$

$$35. x > 0$$

$$36. x > -5$$

$$37. x \in (2, \infty)$$

$$38. x \in (-\infty, 2) \cup (2, \infty)$$

$$39. x \in (-\infty, 0) \cup (4, \infty)$$

$$40. x \in (-\infty, -\frac{3}{2}) \cup (2, \infty)$$

$$41. x \in (-2, 2)$$

$$42. x \in (-\frac{1}{2}, 0) \cup (2, 3)$$

$$43. x \in (-\infty, -\frac{4}{3}) \cup (2, 5) \cup (5, \infty)$$

$$44. x \in (\frac{5}{3}, 2) \cup (2, 3]$$

$$45. x \in (-\infty, 1) \cup (2, 3) \cup (4, \infty)$$

$$46. x \in (-\infty, -2] \cup [\frac{2}{3}, \infty)$$

$$47. x \in [-1, 3]$$

$$48. x \in [-2, -\frac{2}{3}] \cup [0, 2]$$

$$49. x \in [-\frac{1}{2}, 1]$$

$$50. x \in [1, 4]$$

$$51. x \in (-\infty, -\frac{7}{2}) \cup [2, \infty)$$

$$52. x \in (-2, -1) \cup (-1, 5]$$