

Vyšetřete průběh funkce:

1. $f(x) = \sqrt[3]{2x^2 - x^3}$

2. $f(x) = \sqrt[4]{x^4 + 4x^3 + 4x^2}$

3. $f(x) = \arcsin(1 - 2x^2)$

4. $f(x) = \arcsin\left(\frac{x^2}{2} - 1\right)$

5. $f(x) = \arccos\left(1 - \frac{x^2}{2}\right)$

6. $f(x) = \sqrt[3]{e^x - 1}$

7. $f(x) = \sqrt{|\ln x|}$

8. $f(x) = \sqrt[3]{\ln^2 x}$

9. $f(x) = \arcsin \frac{2}{e^x + e^{-x}}$

10. $f(x) = \sqrt[3]{(x^2 - 1)^4}$

11. $f(x) = \sqrt[3]{x^3 + x^2}$

12. $f(x) = \sqrt[3]{x} e^{-x}$

13. $f(x) = \sqrt[3]{(x-4)^2} - \sqrt[3]{4-x}$

14. $f(x) = \sqrt[3]{\frac{(x^2-1)^2}{8x}}$

15. $f(x) = \arcsin \frac{2x^2}{x^4 + 1}$

16. $f(x) = \sqrt{x^3 - 4x^2 + 4x}$

17. $f(x) = \sqrt[3]{x^4 - 4x^2}$

18. $f(x) = \sqrt[3]{(x+1)(x-2)^2}$

19. $f(x) = \sqrt{1 - \frac{2x}{x^2 + 1}}$

20. $f(x) = \sqrt{\frac{2x}{x^2 + 1} + 1}$

21. $f(x) = \arcsin \frac{x^3 - 3x}{2}$