

Ispitajte tok i skicirajte graf funkcije zadane formulom:

$$1. f(x) = \frac{2x^3}{x^2 - 4}$$

$$2. f(x) = \frac{2}{\pi + 2 \operatorname{arctg} x}$$

$$3. f(x) = \frac{1}{e^x - 1}$$

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

$$5. f(x) = \sqrt[3]{x^2 - 1}$$

$$6. f(x) = \frac{x}{\sqrt[3]{x^2 - 1}}$$

$$7. f(x) = \arcsin \frac{1 - x^2}{1 + x^2}$$

$$8. f(x) = (x^2 + 2)e^{-x^2}$$

$$9. f(x) = \sqrt{8 + x} - \sqrt{8 - x}$$

$$10. f(x) = \frac{\sin x}{2 + \cos x}$$

$$11. f(x) = \ln \cos x$$

$$12. f(x) = x^2 e^{\frac{1}{x}}$$

$$13. f(x) = \ln \frac{x + 2}{5 - x}$$

$$14. f(x) = x - \ln \left( \frac{x - 3}{x - 2} \right)^2$$

$$15. f(x) = \frac{1 - \ln x}{1 + \ln x}$$

$$16. f(x) = \frac{1}{2}x^2 + \ln x$$

$$17. f(x) = x^{\frac{1}{x}}$$

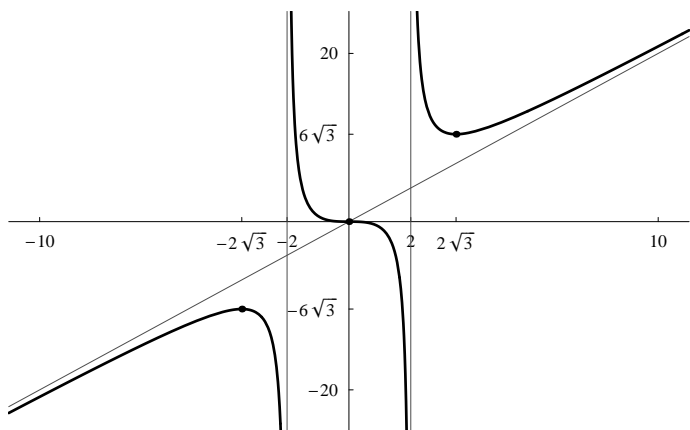
$$18. f(x) = \frac{e^{\frac{1}{1-x^2}}}{1 + x^2}$$

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

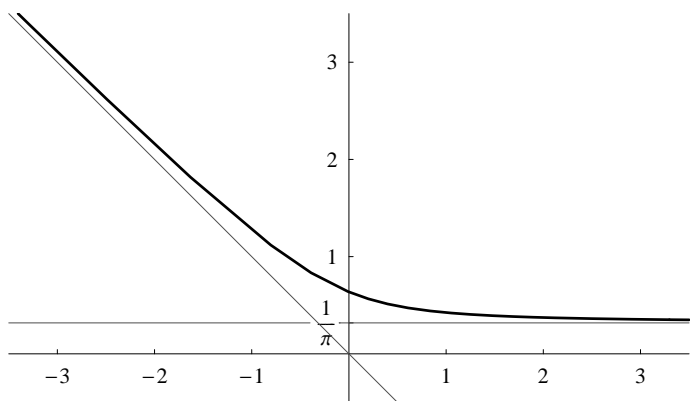
$$20. f(x) = x + \sin x$$

$$21. f(x) = x \sin x$$

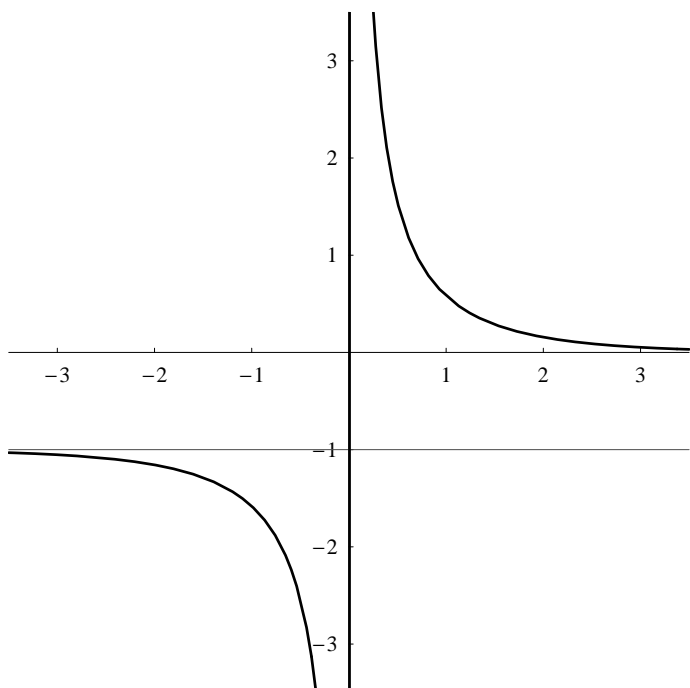
$$1. f(x) = \frac{2x^3}{x^2 - 4}$$



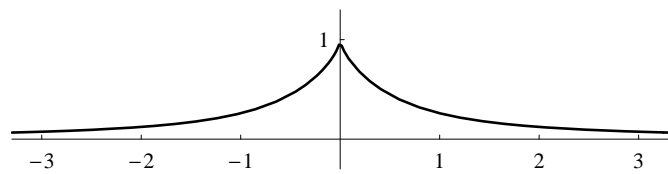
$$2. f(x) = \frac{2}{\pi + 2 \arctg x}$$



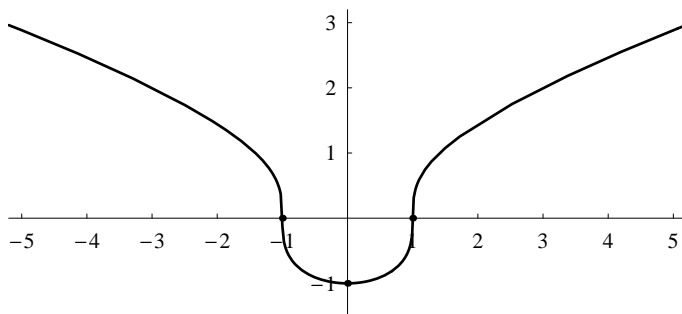
$$3. f(x) = \frac{1}{e^x - 1}$$



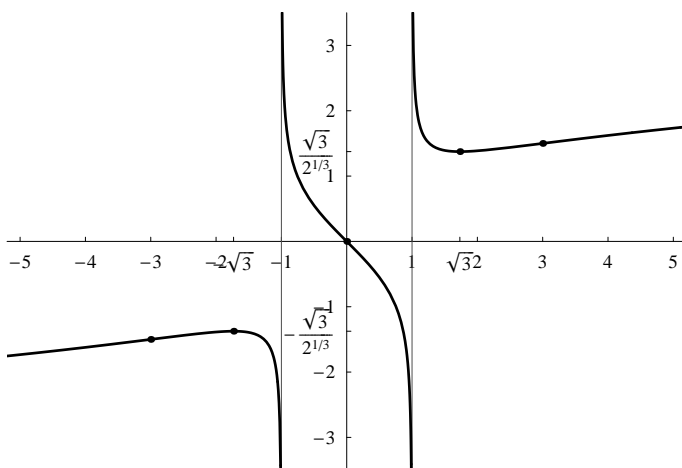
$$4. f(x) = \sqrt[3]{x^2 + 1} - \sqrt[3]{x^2}$$



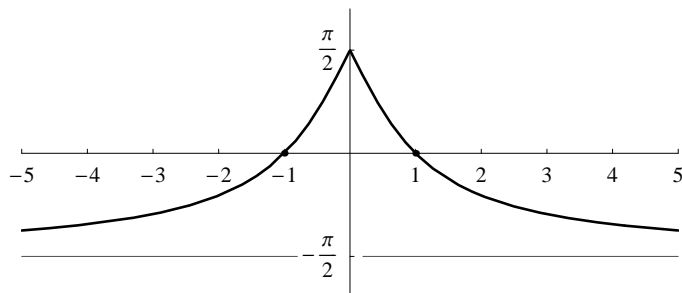
$$5. f(x) = \sqrt[3]{x^2 - 1}$$



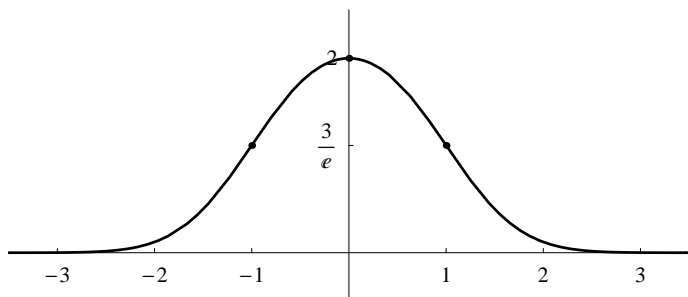
$$6. f(x) = \frac{x}{\sqrt[3]{x^2 - 1}}$$



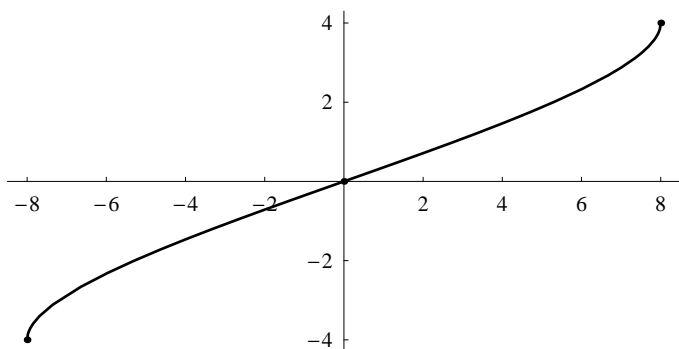
$$7. f(x) = \arcsin \frac{1 - x^2}{1 + x^2}$$



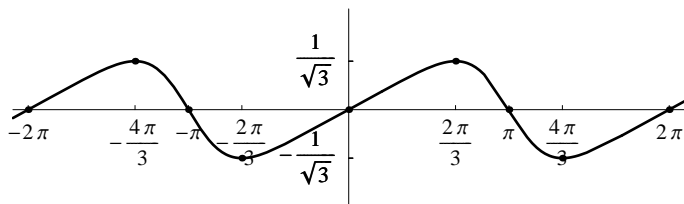
8.  $f(x) = (x^2 + 2)e^{-x^2}$



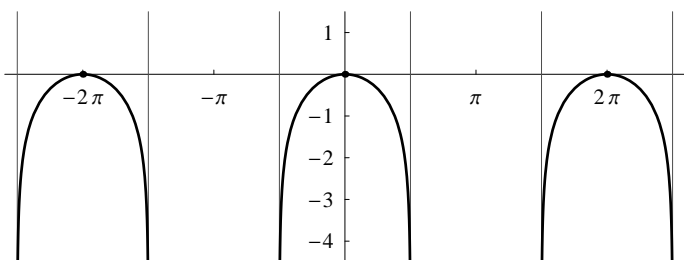
9.  $f(x) = \sqrt{8+x} - \sqrt{8-x}$



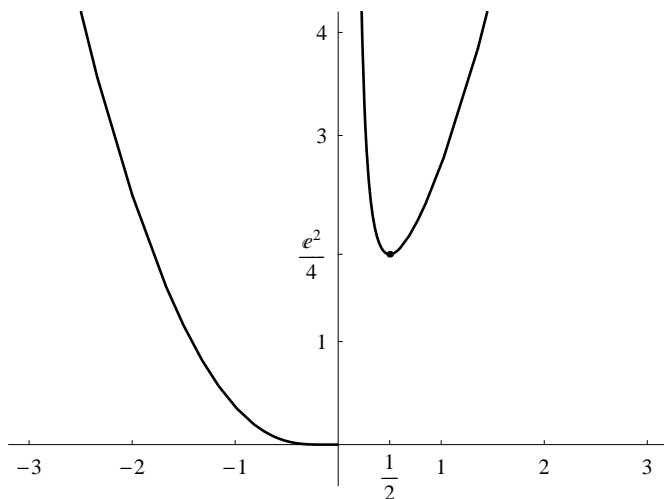
10.  $f(x) = \frac{\sin x}{2 + \cos x}$



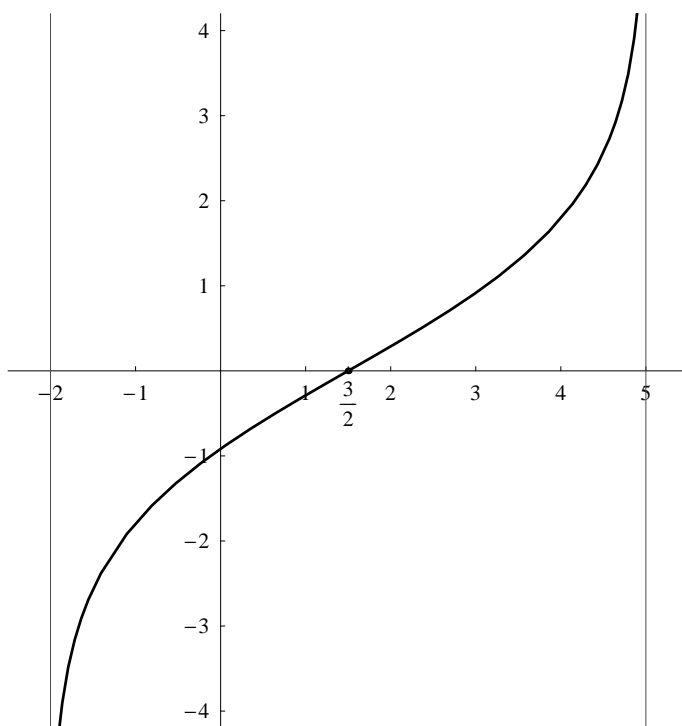
11.  $f(x) = \ln \cos x$



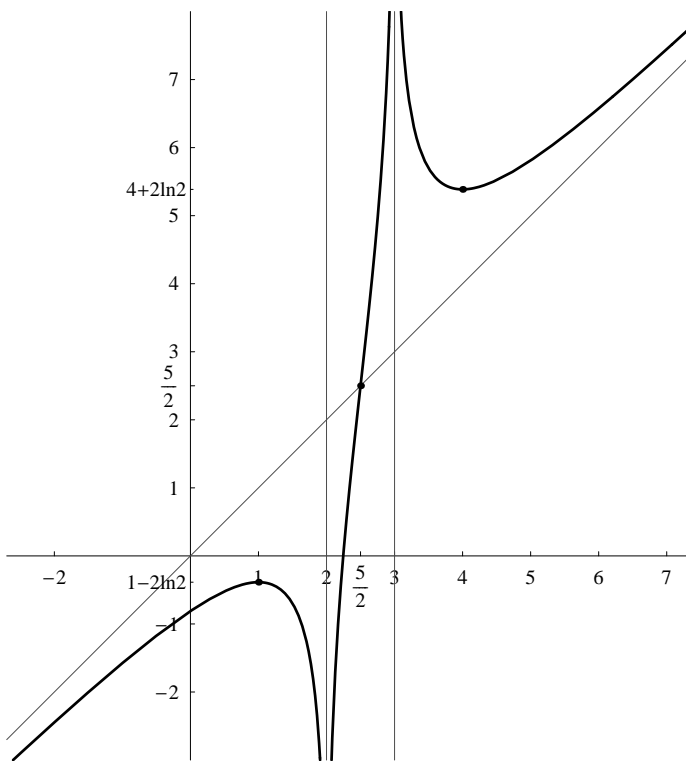
12.  $f(x) = x^2 e^{\frac{1}{x}}$



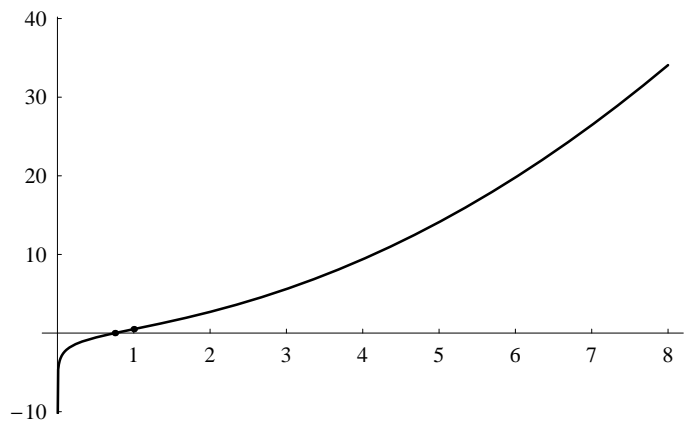
13.  $f(x) = \ln \frac{x+2}{5-x}$



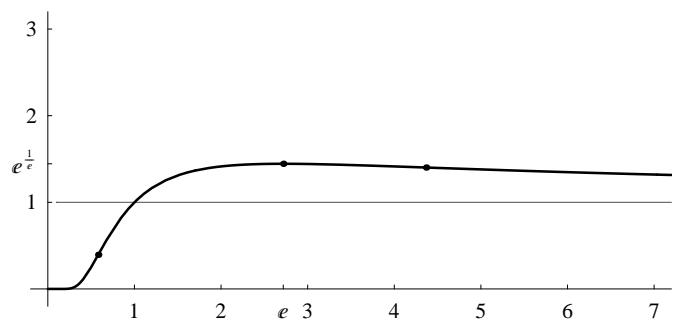
14.  $f(x) = x - \ln\left(\frac{x-3}{x-2}\right)^2$



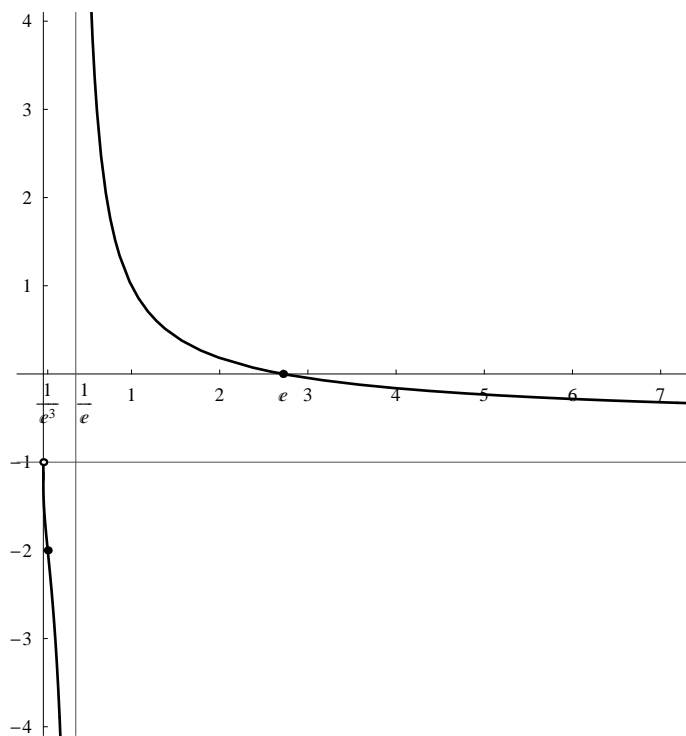
16.  $f(x) = \frac{1}{2}x^2 + \ln x$



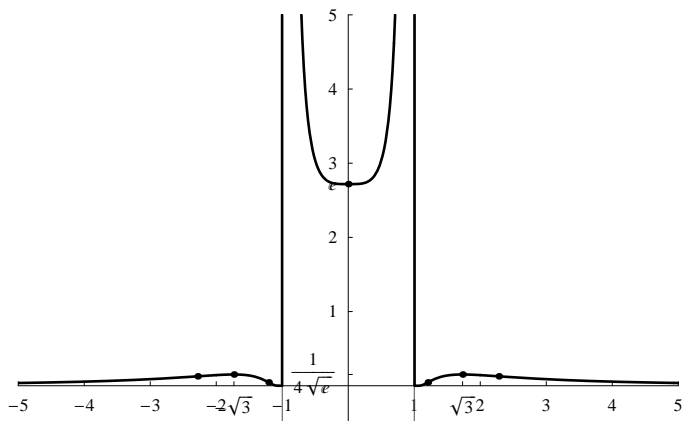
17.  $f(x) = x^{\frac{1}{x}}$



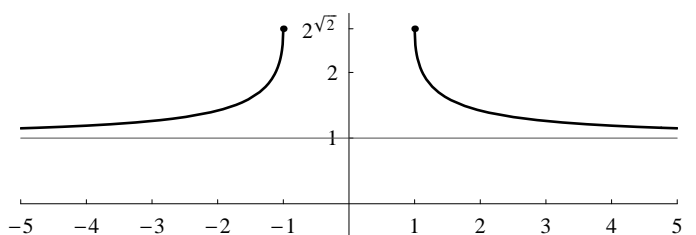
15.  $f(x) = \frac{1 - \ln x}{1 + \ln x}$



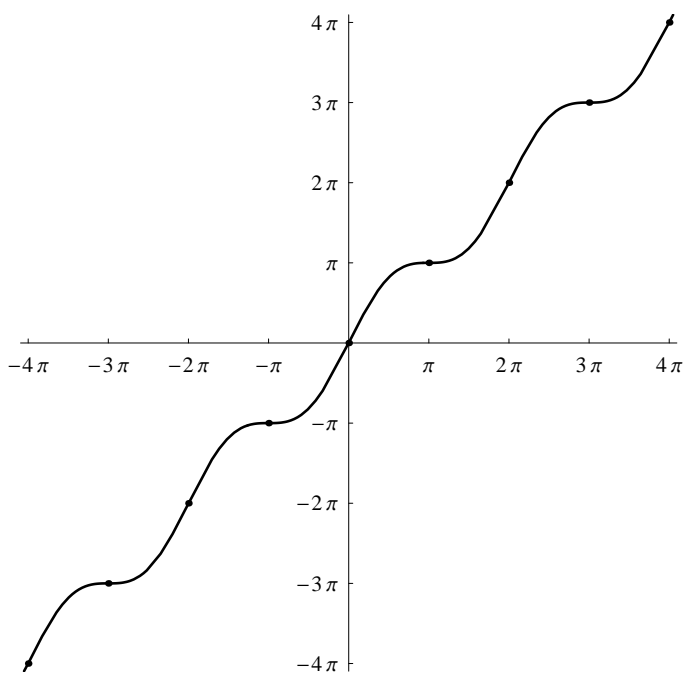
18.  $f(x) = \frac{e^{\frac{1}{1-x^2}}}{1+x^2}$



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



20.  $f(x) = x + \sin x$



21.  $f(x) = x \sin x$

