Függvényvizsgálat

1. $y = (x-2)^2 (x-3)^2$

2. $y = \dfrac{x}{1+x^2}$

3. $y = x + \dfrac{1}{x}$

4. $y = x^3 + \dfrac{1}{5x}$

5. $y = \dfrac{x^2}{1+x}$

6. $y = \dfrac{x^2 - x + 9}{x^2 + x + 9}$

7. $y = \dfrac{x^2 - 3x - 19}{5(x+4)}$

8. $y = \dfrac{x^2 + x - 1}{x^2 - x + 1}$

9. $y = \sin^3 x$

10. $y = x + \sin x$

11. $y = x + arc\,\mathrm{tg}\,x$

12. $y = \sin x + \cos 2x$

13. $y = e^{-x^2}$

14. $y = e^x \cos x$

15. $y = x^2 \ln x$

16. $y = \ln \sin x$