

Cvičení 02

Nakreslete grafy funkcí:

1. $y = |x^2 + x - 6|$

8. $y = |x| - |x^2 - 1|$

2. $y = x^2 + 2|x| - 3$

9. $y = |x^2 - x| + |x| - 2$

3. $y = x^2 - 3|x|$

10. $y = x|x - 2| + |x^2 - 4|$

4. $y = x|x - 3|$

11. $y = x|x - 2| + |x^2 - 2x|$

5. $y = |x|(x - 3)$

12. $y = |9 - x^2| + |4 - x^2| - 5$

6. $y = x^2 - 4|x - 1| + 1$

13. $y = |x^2 + 2x| + |x^2 + 2x - 3| - 2$

7. $y = |2x + 1| - x|x - 4|$

14.

$$y = \frac{x^4 - 1}{|x^2 - 1|}$$

15.

$$y = \frac{2x(1 + x^2)}{2|x|}$$

16.

$$y = \frac{2x}{\sqrt{1 - \left(\frac{1-x^2}{1+x^2}\right)^2}}$$