Funzioni definite graficamente

Periodo 3 - UdA 1

Rappresentare graficamente le seguenti funzioni continue senza tratti orizzontali:

1. $f :]-5, 0[\longrightarrow \mathbb{R}$ $\quad \lim_{x \to -5} f(x) = 0$ $\quad \lim_{x \to 0} f(x) = -\infty$
2. $f : [1, 4[\longrightarrow \mathbb{R}$ $\quad f(1) = 0$ $\quad \lim_{x \to 4} f(x) = +\infty$
3. $f :]0, 5[\longrightarrow \mathbb{R}$ $\quad \lim_{x \to 0} f(x) = 0$ $\quad \lim_{x \to 5} f(x) = +\infty$
4. $f : [-3, 0] \longrightarrow \mathbb{R}$ $\quad f(-3) = 0$ $\quad f(0) = 0$
5. $f :]-3, -1[\longrightarrow \mathbb{R}$ $\quad \lim_{x \to -3} f(x) = 0$ $\quad \lim_{x \to -1} f(x) = -3$
6. $f :]0, 5[\longrightarrow \mathbb{R}$ $\quad \lim_{x \to 0} f(x) = 0$ $\quad \lim_{x \to 5} f(x) = +\infty$
7. $f :]-5, -3[\longrightarrow \mathbb{R}$ $\quad \lim_{x \to -5} f(x) = -\infty$ $\quad \lim_{x \to -3} f(x) = -\infty$
8. $f :]-4, -2[\longrightarrow \mathbb{R}$ $\quad \lim_{x \to -4} f(x) = -1$ $\quad \lim_{x \to -2} f(x) = -\infty$
9. $f :]-4, 0[\longrightarrow \mathbb{R}$ $\quad \lim_{x \to -4} f(x) = +\infty$ $\quad \lim_{x \to 0} f(x) = 1$
10. $f :]1, 4[\longrightarrow \mathbb{R}$ $\quad \lim_{x \to 1} f(x) = -\infty$ $\quad \lim_{x \to 4} f(x) = -3$
11. $f : [-4, 0[\longrightarrow \mathbb{R}$ $\quad f(-4) = 0$ $\quad \lim_{x \to 0} f(x) = -\infty$
12. $f :]-3, 0[\longrightarrow \mathbb{R}$ $\quad \lim_{x \to -3} f(x) = +\infty$ $\quad \lim_{x \to 0} f(x) = +\infty$

13. $f :]-3,-1] \longrightarrow \mathbb{R}$ $\lim\limits_{x\to -3} f(x) = -\infty$ $f(-1) = -3$

14. $f : [2,4] \longrightarrow \mathbb{R}$ $f(2) = 4$ $f(4) = 1$

15. $f : [-5,-1[\longrightarrow \mathbb{R}$ $f(-5) = 0$ $\lim\limits_{x\to -1} f(x) = -\infty$

16. $f : [1,4[\longrightarrow \mathbb{R}$ $f(1) = -2$ $\lim\limits_{x\to 4} f(x) = -4$

17. $f :]0,4[\longrightarrow \mathbb{R}$ $\lim\limits_{x\to 0} f(x) = -2$ $\lim\limits_{x\to 4} f(x) = -\infty$

18. $f :]1,3] \longrightarrow \mathbb{R}$ $\lim\limits_{x\to 1} f(x) = 3$ $f(3) = 0$

19. $f :]0,4] \longrightarrow \mathbb{R}$ $\lim\limits_{x\to 0} f(x) = -\infty$ $f(4) = -2$

20. $f :]-4,-1[\longrightarrow \mathbb{R}$ $\lim\limits_{x\to -4} f(x) = 3$ $\lim\limits_{x\to -1} f(x) = 3$

21. $f :]-5,-1] \longrightarrow \mathbb{R}$ $\lim\limits_{x\to -5} f(x) = +\infty$ $f(-1) = 3$

22. $f : [-2,0[\longrightarrow \mathbb{R}$ $f(-2) = 2$ $\lim\limits_{x\to 0} f(x) = 2$

23. $f :]-4,0[\longrightarrow \mathbb{R}$ $\lim\limits_{x\to -4} f(x) = 0$ $\lim\limits_{x\to 0} f(x) = +\infty$

24. $f :]0,5] \longrightarrow \mathbb{R}$ $\lim\limits_{x\to 0} f(x) = -\infty$ $f(5) = -4$

25. $f :]-5,-1] \longrightarrow \mathbb{R}$ $\lim\limits_{x\to -5} f(x) = +\infty$ $f(-1) = 4$

26. $f : [2,4[\longrightarrow \mathbb{R}$ $f(2) = 0$ $\lim\limits_{x\to 4} f(x) = 0$