

Funzioni definite graficamente

Periodo 3 - UdA 1

Rappresentare graficamente le seguenti funzioni continue senza tratti orizzontali:

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

13.	$f :]3, +\infty[\rightarrow \mathbb{R}$	$\lim_{x \rightarrow 3} f(x) = -\infty$	$\lim_{x \rightarrow +\infty} f(x) = -\infty$
14.	$f :]-\infty, 0] \rightarrow \mathbb{R}$	$\lim_{x \rightarrow -\infty} f(x) = +\infty$	$f(0) = 2$
15.	$f :]0, +\infty[\rightarrow \mathbb{R}$	$\lim_{x \rightarrow 0} f(x) = -3$	$\lim_{x \rightarrow +\infty} f(x) = 0$
16.	$f :]-\infty, 0[\rightarrow \mathbb{R}$	$\lim_{x \rightarrow -\infty} f(x) = 0$	$\lim_{x \rightarrow 0} f(x) = +\infty$
17.	$f :]0, +\infty[\rightarrow \mathbb{R}$	$\lim_{x \rightarrow 0} f(x) = 0$	$\lim_{x \rightarrow +\infty} f(x) = -\infty$
18.	$f :]-\infty, -3[\rightarrow \mathbb{R}$	$\lim_{x \rightarrow -\infty} f(x) = 0$	$\lim_{x \rightarrow -3} f(x) = 1$
19.	$f :]0, +\infty[\rightarrow \mathbb{R}$	$\lim_{x \rightarrow 0} f(x) = -3$	$\lim_{x \rightarrow +\infty} f(x) = -\infty$
20.	$f :]-\infty, -3[\rightarrow \mathbb{R}$	$\lim_{x \rightarrow -\infty} f(x) = 2$	$\lim_{x \rightarrow -3} f(x) = +\infty$
21.	$f :]-\infty, -1[\rightarrow \mathbb{R}$	$\lim_{x \rightarrow -\infty} f(x) = 4$	$\lim_{x \rightarrow -1} f(x) = 1$
22.	$f :]-\infty, -2[\rightarrow \mathbb{R}$	$\lim_{x \rightarrow -\infty} f(x) = 0$	$\lim_{x \rightarrow -2} f(x) = +\infty$
23.	$f :]-\infty, -3[\rightarrow \mathbb{R}$	$\lim_{x \rightarrow -\infty} f(x) = 0$	$\lim_{x \rightarrow -3} f(x) = 0$
24.	$f :]-\infty, 0[\rightarrow \mathbb{R}$	$\lim_{x \rightarrow -\infty} f(x) = -1$	$\lim_{x \rightarrow 0} f(x) = -\infty$
25.	$f : [0, +\infty[\rightarrow \mathbb{R}$	$f(0) = -4$	$\lim_{x \rightarrow +\infty} f(x) = -2$
26.	$f :]0, +\infty[\rightarrow \mathbb{R}$	$\lim_{x \rightarrow 0} f(x) = 2$	$\lim_{x \rightarrow +\infty} f(x) = 2$