

# Funzioni in un intervallo limitato

## Periodo 3 - UdA 1

Rappresentare graficamente le seguenti funzioni continue senza tratti orizzontali:

[1]  $\lim_{x \rightarrow -\infty} f(x) = 3 \quad f(-2) = 1$

[3]  $\lim_{x \rightarrow 0} f(x) = -\infty \quad \lim_{x \rightarrow +\infty} f(x) = -1$

[5]  $\lim_{x \rightarrow -\infty} f(x) = -1 \quad f(-1) = 0$

[7]  $f(0) = -2 \quad \lim_{x \rightarrow +\infty} f(x) = -\infty$

[9]  $\lim_{x \rightarrow -\infty} f(x) = -3 \quad \lim_{x \rightarrow 0} f(x) = -2$

[11]  $\lim_{x \rightarrow 3} f(x) = 1 \quad \lim_{x \rightarrow +\infty} f(x) = 0$

[13]  $f(0) = -4 \quad \lim_{x \rightarrow +\infty} f(x) = -2$

[15]  $\lim_{x \rightarrow -\infty} f(x) = 0 \quad f(0) = 3$

[17]  $\lim_{x \rightarrow 3} f(x) = 0 \quad \lim_{x \rightarrow +\infty} f(x) = -1$

[19]  $\lim_{x \rightarrow -\infty} f(x) = -2 \quad f(0) = 0$

[21]  $\lim_{x \rightarrow 0} f(x) = -\infty \quad \lim_{x \rightarrow +\infty} f(x) = -\infty$

[23]  $\lim_{x \rightarrow 2} f(x) = 0 \quad \lim_{x \rightarrow +\infty} f(x) = +\infty$

[25]  $\lim_{x \rightarrow 3} f(x) = +\infty \quad \lim_{x \rightarrow +\infty} f(x) = 2$

[2]  $\lim_{x \rightarrow 3} f(x) = -\infty \quad \lim_{x \rightarrow +\infty} f(x) = -\infty$

[4]  $\lim_{x \rightarrow 0} f(x) = 3 \quad \lim_{x \rightarrow +\infty} f(x) = +\infty$

[6]  $\lim_{x \rightarrow 0} f(x) = -\infty \quad \lim_{x \rightarrow +\infty} f(x) = 0$

[8]  $f(1) = 0 \quad \lim_{x \rightarrow +\infty} f(x) = -\infty$

[10]  $\lim_{x \rightarrow 2} f(x) = +\infty \quad \lim_{x \rightarrow +\infty} f(x) = 0$

[12]  $\lim_{x \rightarrow 1} f(x) = 1 \quad \lim_{x \rightarrow +\infty} f(x) = 4$

[14]  $\lim_{x \rightarrow -\infty} f(x) = -\infty \quad \lim_{x \rightarrow -2} f(x) = -1$

[16]  $\lim_{x \rightarrow -\infty} f(x) = +\infty \quad f(-1) = 0$

[18]  $\lim_{x \rightarrow 0} f(x) = 3 \quad \lim_{x \rightarrow +\infty} f(x) = 0$

[20]  $\lim_{x \rightarrow -\infty} f(x) = +\infty \quad \lim_{x \rightarrow 0} f(x) = 0$

[22]  $\lim_{x \rightarrow -\infty} f(x) = -3 \quad \lim_{x \rightarrow -2} f(x) = 0$

[24]  $\lim_{x \rightarrow -\infty} f(x) = 2 \quad \lim_{x \rightarrow 0} f(x) = 0$

[26]  $f(3) = 2 \quad \lim_{x \rightarrow +\infty} f(x) = +\infty$