

Limiti nelle funzioni reali

Periodo 3 - Uda 1

Tracciare i grafici delle seguenti funzioni in modo che non ci siano tratti orizzontali

$$1. \lim_{x \rightarrow 0^-} f(x) = 4 \quad \lim_{x \rightarrow 0^+} f(x) = -\infty \quad f(2) = -5 \quad \lim_{x \rightarrow -\infty} f(x) = 3 \quad \lim_{x \rightarrow +\infty} f(x) = -\infty$$

$$2. \lim_{x \rightarrow -3^-} f(x) = 0 \quad \lim_{x \rightarrow -3^+} f(x) = 5 \quad \lim_{x \rightarrow 0^-} f(x) = 2 \quad \lim_{x \rightarrow 0^+} f(x) = -\infty \quad \lim_{x \rightarrow -\infty} f(x) = +\infty \quad \lim_{x \rightarrow +\infty} f(x) = -3$$

$$3. \lim_{x \rightarrow -3^-} f(x) = 0 \quad \lim_{x \rightarrow -3^+} f(x) = -\infty \quad \lim_{x \rightarrow 0^-} f(x) = -\infty \quad \lim_{x \rightarrow 0^+} f(x) = 2 \quad \lim_{x \rightarrow -\infty} f(x) = -3 \quad \lim_{x \rightarrow +\infty} f(x) = 4$$

$$4. \lim_{x \rightarrow 0^-} f(x) = -4 \quad \lim_{x \rightarrow 0^+} f(x) = -\infty \quad f(2) = -2 \quad \lim_{x \rightarrow -\infty} f(x) = -2 \quad \lim_{x \rightarrow +\infty} f(x) = -5$$

$$5. \lim_{x \rightarrow -5^-} f(x) = -3 \quad \lim_{x \rightarrow -5^+} f(x) = 4 \quad \lim_{x \rightarrow 0^-} f(x) = +\infty \quad \lim_{x \rightarrow 0^+} f(x) = 1 \quad \lim_{x \rightarrow -\infty} f(x) = -1 \quad \lim_{x \rightarrow +\infty} f(x) = 4$$

$$6. \lim_{x \rightarrow -2^-} f(x) = -5 \quad \lim_{x \rightarrow -2^+} f(x) = +\infty \quad f(0) = 1 \quad \lim_{x \rightarrow -\infty} f(x) = -2 \quad \lim_{x \rightarrow +\infty} f(x) = 3$$

$$7. \lim_{x \rightarrow -2^-} f(x) = -\infty \quad \lim_{x \rightarrow -2^+} f(x) = 2 \quad f(0) = 3 \quad \lim_{x \rightarrow -\infty} f(x) = -4 \quad \lim_{x \rightarrow +\infty} f(x) = 5$$

$$8. f(-2) = -4 \quad f(0) = -3 \quad \lim_{x \rightarrow -\infty} f(x) = -1 \quad \lim_{x \rightarrow +\infty} f(x) = -\infty$$

$$9. \lim_{x \rightarrow -2^-} f(x) = -2 \quad \lim_{x \rightarrow -2^+} f(x) = -3 \quad f(0) = -2 \quad \lim_{x \rightarrow -\infty} f(x) = -\infty \quad \lim_{x \rightarrow +\infty} f(x) = -4$$

$$10. \lim_{x \rightarrow -5^-} f(x) = -5 \quad \lim_{x \rightarrow -5^+} f(x) = -2 \quad f(0) = -1 \quad \lim_{x \rightarrow -\infty} f(x) = 0 \quad \lim_{x \rightarrow +\infty} f(x) = -4$$

$$11. \lim_{x \rightarrow -5^-} f(x) = 5 \quad \lim_{x \rightarrow -5^+} f(x) = 3 \quad \lim_{x \rightarrow 0^-} f(x) = 2 \quad \lim_{x \rightarrow 0^+} f(x) = -3 \quad \lim_{x \rightarrow -\infty} f(x) = 0 \quad \lim_{x \rightarrow +\infty} f(x) = -1$$

$$12. \lim_{x \rightarrow 0^-} f(x) = 3 \quad \lim_{x \rightarrow 0^+} f(x) = -2 \quad f(2) = -3 \quad \lim_{x \rightarrow -\infty} f(x) = +\infty \quad \lim_{x \rightarrow +\infty} f(x) = -5$$