

$$\operatorname{proj} \lim_{i \in I} A_i = \lim_{\longleftarrow i \in I} A_i$$

Inline: $\operatorname{proj} \lim_{i \in I} A_i = \lim_{\longleftarrow i \in I} A_i$

$$\operatorname{inj} \lim_{i \in I} A_i = \lim_{\longrightarrow i \in I} A_i$$

Inline: $\operatorname{inj} \lim_{i \in I} A_i = \lim_{\longrightarrow i \in I} A_i$

$$\limsup_{n \rightarrow \infty} a_n = \overline{\lim}_{n \rightarrow \infty} a_n$$

Inline: $\limsup_{n \rightarrow \infty} a_n = \overline{\lim}_{n \rightarrow \infty} a_n$

$$\liminf_{n \rightarrow \infty} a_n = \underline{\lim}_{n \rightarrow \infty} a_n$$

Inline: $\liminf_{n \rightarrow \infty} a_n = \underline{\lim}_{n \rightarrow \infty} a_n$