$\texttt{ClosedGraph1} :: \forall E, F : \texttt{Banach} \ . \ \forall \ T : \mathcal{M}_{\mathsf{TVS}(\mathbb{R})} : \texttt{Iso}(\mathsf{SET})(E, F) \ . \ T : \texttt{Iso}(\mathsf{TVS}(\mathbb{R}))(E, F)$

$\texttt{Proof :}$

$\texttt{A} \ E, F : \texttt{Banach},$

$\texttt{A} \ T : \mathcal{M}_{\mathsf{TVS}(\mathbb{R})} : \texttt{Iso}(\mathsf{SET})(E, F),$

$\texttt{Iso}(\mathsf{SET})(E, F)(T) \Rightarrow \exists f : \texttt{Inverse}(\mathsf{SET})(T) \ \texttt{E} \ (T^{-1}),$

$\texttt{A} \ v, w \in F,$

$\texttt{Inverse}(\mathsf{SET})(T)(T^{-1}) \Rightarrow \exists a, b \in E : Ta = v \wedge Tb = w \ \texttt{E},$

$T^{-1}(v + w) = T^{-1}(Ta + Tb) = T^{-1}T(a + b) = a + b = T^{-1}Ta + T^{-1}Tb = T^{-1}v + T^{-1}w \ \texttt{as} \ (1);$

$\texttt{A} \ v \in F,$

$\texttt{A} \ r \in \mathbb{R},$

$\texttt{Inverse}(\mathsf{SET})(T)(T^{-1}) \Rightarrow \exists a \in E : Ta = v \ \texttt{E},$

$T^{-1}rv = T^{-1}rTa = T^{-1}Tra = ra = rT^{-1}Ta = rT^{-1}v \ \texttt{as} \ (2);;$

$\texttt{Linear}(\mathbb{R})(T^{-1}, (1), (2)) \Rightarrow T^{-1} : \mathcal{M}_{\mathsf{NVS}(\mathbb{R})}(F, E) \ \texttt{as} \ (3),$

$\texttt{A} \ y : \texttt{Convergent}(F),$

$Y \triangleq \lim_{n \to \infty} y_n, X \triangleq T^{-1}Y, x \triangleq T^{-1}y,$

$0 = \lim_{n \to \infty} \|Y - y_n\| = \lim_{n \to \infty} \|TX - Tx_n\| = \lim_{n \to \infty} \|T(X - x_n)\| = \left\| T \left(\lim_{n \to \infty} X - x_n \right) \right\| \ \texttt{as} \ (4),$

$\texttt{Norm}(\| \cdot \|)_1(4) \Rightarrow T \left(\lim_{n \to \infty} X - x_n \right) = 0 \to \texttt{Iso}(\mathsf{SET})(E, F)(T) \Rightarrow \lim_{n \to \infty} x_n = X \ \texttt{as} \ (5),$

$\triangleq (Y, y)(5) \Rightarrow \lim_{n \to \infty} T^{-1}y_n = T^{-1}Y \ \texttt{as} \ (6);$

$\texttt{Continous}(T^{-1}, (6)) \Rightarrow T^{-1} : \mathcal{M}_{\mathsf{TOP}}(F, E) \ \texttt{as} \ (7),$

$(3, 7) \Rightarrow T^{-1} : \mathcal{M}_{\mathsf{TVS}(\mathbb{R})}(E, F) \Rightarrow T : \texttt{Iso}(\mathsf{TVS}(\mathbb{R}));; \square$

$\texttt{ClosedGraph2} :: \forall E : \texttt{Banach} \ . \ \forall \ A : \texttt{Subspace}(E) \ . \ \forall B : \texttt{Split}(F) \ .$

$. \ \Lambda a \in A \ . \ \Lambda b \in B \ . \ a + b : \texttt{Iso}(\mathsf{TVS}(\mathbb{R}))(A \oplus B, E)$

$\texttt{Proof :}$

$\texttt{A} \ E : \texttt{Banach},$

$\texttt{A} \ A : \texttt{ClSubspace}(E),$

$\texttt{A} \ B : \texttt{Split}(A),$

$s \triangleq \Lambda a \in A \ . \ \Lambda b \in B \ . \ a + b,$

$\texttt{Split}(A)(B) \Rightarrow A + B = E \Rightarrow s : \texttt{Surjective} \ \texttt{as} \ (1),$

$\texttt{Split}(A)(B) \Rightarrow A \cap B = \{0\} \Rightarrow s : \texttt{Injective} \ \texttt{as} \ (2),$

$(1, 2) \Rightarrow s : \texttt{Iso}(\mathsf{SET})(E, F) \to \texttt{ClosedGraph1}(E : \mathsf{TVS}(\mathbb{R})) \to s : \texttt{Iso}(\mathsf{TVS}(\mathbb{R}))(A \oplus B, E);;; \square$