

$$\begin{aligned}
& k(\cdot) \\
& k(\cdot) \\
& t \in \\
& (0, +\infty) \\
& \limsup_{s \rightarrow t^+} k(s) < \\
& 1(R)(0) \\
& F \\
& x_0 \in \\
& E \\
& x_1 \in \\
& F(x_0) \\
& x_0 = \\
& x_1 \\
& x_0 \\
& (x_n)_{n \in N} \\
& E \\
& x_{n+1} \in \\
& F(x_n) \\
& d_n = \\
& d(x_{n+1}, x_n) \\
& d_0 = \\
& d(x_0, x_1) \\
& x_1 \in \\
& F(x_0) \\
& + (F(x_1), F(x_0)) = \\
& \sup_{x \in F(x_0)} d(x, F(x_1)) \leq \\
& k(d(x_0, x_1))d(x_0, x_1) \\
& \sup_{x \in F(x_0)} d(x, F(x_1)) \leq \\
& k(d_0)d_0 < \\
& 12(1+ \\
& k(d_0))d_0 < \\
& d_0 \in \\
& x_1 \in \\
& F(x_0) \\
& d(x_1, F(x_1)) < \\
& 12(1+ \\
& k(d_0))d_0 \\
& \inf_{y \in F(x_1)} d(x_1, y) < \\
& 12(1+ \\
& k(d_0))d_0 \\
& x_2 \in \\
& F(x_1) \\
& d(x_2, x_1) < \\
& 12(1+ \\
& k(d_0))d_0 \\
& d_1 = \\
& d(x_2, x_1) \\
& x_2 \in \\
& F(x_1) \\
& + (F(x_2), F(x_1)) = \\
& \sup_{x \in F(x_1)} d(x, F(x_2)) \leq \\
& k(d(x_1, x_2))d(x_1, x_2) \\
& \sup_{x \in F(x_1)} d(x, F(x_2)) \leq \\
& k(d_1)d_1 < \\
& 12(1+ \\
& k(d_1))d_1 < \\
& d_1 \in \\
& x_2 \in \\
& F(x_1) \\
& \inf_{y \in F(x_2)} d(x_2, y) = \\
& d(x_2, F(x_2)) \leq \\
& 12(1+ \\
& k(d_1))d_1 \\
& x_3 \in \\
& F(x_2) \\
& d(x_3, x_2) < 12(1+k(d_1))d_1 \\
& d_2 = \\
& d(x_3, x_2) \\
& d_2 < 12(1+k(d_1))d_1 < d_1 < 12(1+k(d_0))d_0 < d_0 \\
& d_n \\
& x_{n+1} \in \\
& F(x_n) \\
& d_n = \\
& d(x_{n+1}, x_n) \\
& l = \\
& \lim_{n \rightarrow \infty} d_n
\end{aligned}$$