#9 $h(x) = \max \{f(x), g(x)\} \times CC$ $X,Y \in C$ and $\emptyset \in \{t(1)\}$ let $h((1-t)X+tY) = \{((1-t)X+tY)\}$

Since f(X) is convex h((1-t)X+tY) = f((1-t)X+tY)((1-t)f(x)+tf(Y)(1-t)h(x)+th(Y)

=) h is convex

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