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$$f(x, y) = xy(1 - 8x - 9y)$$

has 4 critical points. List them and select the type of critical point. Points should be entered as ordered pairs and listed in increasing lexicographic order. By that we mean that (x, y) comes before (z, w) if $x < z$ or if $x = z$ and $y < w$.

First point of type

Second point of type

Third point of type

Fourth point of type

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