Consider the function (similar, but not identical to the previous problem), $f(x_1, x_2) = x_1^2 - 3x_1 + 2|x_1| + 2x_2^2 + x_2 + 4|x_2| - 5$. Is $(0,0)^\top$ an element of the subdifferential at $(x_1, x_2) = (0,0)$?

- Yes

- No