Quiz (6) MCS 471 Jan Verschelde Friday 30 September 2022

Submit your Jupyter notebook with the answers to gradescope by 10:50am.

Consider $p = x^2 - 5x + 2$.

1. Compute the table of divided differences to interpolate at $(-2, p(-2))$, $(-1, p(-1))$, $(+1, p(+1))$, and $p(+2, p(+2))$.
2. Explain why the highest order divided difference $f[-2, -1, +1, +2]$ is zero.