Please put away all electronic devices. This sheet will be collected but not assessed. The professor will look at the second page but will ignore the first page.

**Mindfulness** (adapted from UC Berkeley’s Greater Good project). Mindfulness means maintaining a gentle, moment-by-moment awareness of our thoughts, feelings, bodily sensations, and the surrounding environment. Do some coloring of the picture below while practicing this awareness.

![A picture containing diagram

Description automatically generated]()

The polynomial interpolant for n data points in the plane is of degree… (choose the best answer)

1. At least n – 1
2. At most n – 1
3. At least n
4. At most n
5. At least n + 1
6. At most n + 1

Answer:

Write down the Lagrange form of the interpolating polynomial for the points (1,2), (3,4), (5,6).

Answer:

Runge’s phenomenon refers to…

1. Sampling points unequally across an interval
2. The difficulty of finding an analytical bound on a derivative
3. Oscillations in high degree interpolating polynomials
4. Minimizing interpolation error

Answer: