## Answering CLE-105 (Autumn 2025) Assignment-1

Chaitanya Deshkar — 23B2712 August 10, 2025

## Question 1

The choice of these special numbers is for a specific historical and practical reason. Each of the examples given in the question have distinct answers, The reason that we use 12 hour systems finds its origin in Egyptian civilization and 60 minutes for an hour finds in Babylonian civilization. Although 360 does not have historical significance, the reason is that it is used as the total angle since it is divisible by most of the numbers. This shows that These usually stem from the contemporary mathematical discourse and culture.

## Question 2

If we just take the conjugate of any polynomial with real co-efficients and set it to zero, if a certain complex x satisfies it, we can see that in conjugate polynomial, only the powers of x become conjugated, as coefficients are real, and it still would be equal to zero, proving that conjugate of x as well is a solution