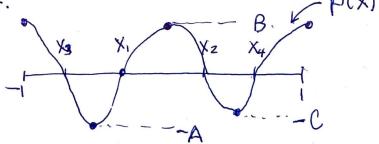
Hink for Assignment #1, Q's 324.

- · The reference interval [-1,1] makes the question easier.
- · For #3, you can use symmetry and assume

$$X_{1,2} = \pm X$$
 $X_{3,4} = \pm Y$
 $X_{4,2} = \pm X_{4,4}$
 $X_{4,4} = \pm Y_{4,4}$

- For #4, you can also use symmetry $X_1=-1$ $X_{2,3}=\pm X$ $X_4=+1$.
- The C will involve the maximum absolute value of a quartic polynomial with nots XI. I. X4.



Note that if adjacent maxima are not equal, they can be reduced (that is, if A > B, the maximum of A & B can be reduced by moving X_1 to the 1eft). So A = B = C = P(-1) = p(Y).

For 3 point quadratic interpolation instead, with error & C K3 h5.