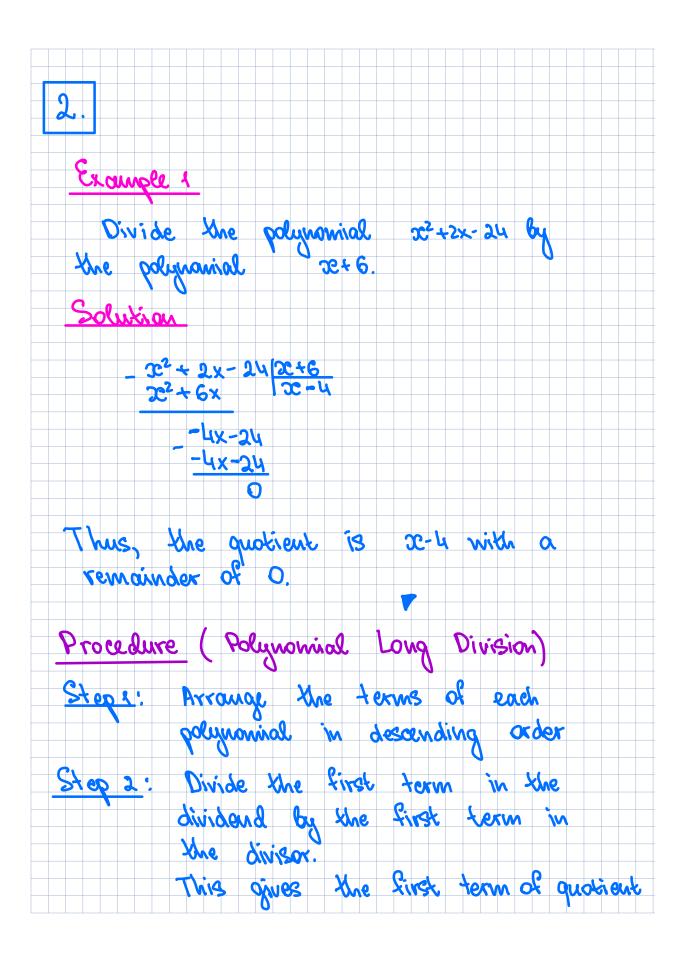


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Thus, the solution is 6x5-5x4+10x3-15x2-19=(2x2-x+3)(3x3-x2-6)-(6x+1) Synthetic division is a shortened version of polynomial long division that can be used when the divisor is of the form x-c for some constant Procedure: (Synthetic division) Step 1: If the divisor is x-c, write down c followed by the coefficients of the dividend. Step 2: Write the leading coefficient WOY Step 3: Multiply C by the value placed on the bottom, and place the product in the next column, in the second raw. Add the values in this column, Step4:

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