

Goals:

Solve real-life problems involving polynomials applying all the techniques learned throughout this chapter.



When solving any problem involving a polynomial functions:

1. Draw a picture. This helps organize the data given and clarify the question.
2. Establish your unknown, and create a polynomial equation (usually cubic) from the information.
3. Determine all the solution (roots) of the polynomial.
4. Reject any solution(s) that are not possible in the problem.
5. Answer the question with a sentence.

Example 1: A storage crate has a height that is twice the width, and a length that is 8m longer than the width. If the volume is 80m^3 , find the dimensions of the crate.