Dividing Polynomials

1) The area of a kite is $h^4 + 7h^3 - 5h^2 - 41h - 42$. If one of the diagonals measures $h + 7$, determine the length of the other diagonal.

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2) The length and height of a rectangular prism are $a + 3$ and $a - 2$ respectively. If the volume is $4a^3 + 4a^2 - 24a$, determine the width of the rectangular prism.

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3) The area of a tria_____ is $x^2 - 4x + 3$, what is the height of the_____

_____

4) One of the diago_____ length of the other diagonal, if the a_____

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5) The area of a parallelogram is $4m^3 + 28m^2 - 6m - 42$. If the base is $4m^2 - 6$, determine the height of the parallelogram.

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