GCF & LCM - Polynomials

1) The GCF and LCM of two polynomials are $m - 7$ and $m^3 - 10m^2 + 11m + 70$ respectively. If one of the polynomials is $m^2 - 5m - 14$, find the other polynomial.

2) The LCM and GCF of two polynomials are $10q^4 + 5q^3 + 8q^2 + 4q$ and $5q^2 + 4$ respectively. Determine the other polynomial, if one of the polynomials is $5q^3 + 4q$.

3) The GCF and LCM of ... ... $2a^2 + 10a$, find q(a).

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4) The LCM and GCF of ... ...termine f(x), if g(x) is $x^4 - 3x^3 + 3x^2 - x$.

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5) The GCF and LCM of two polynomials are $b^3 - 6b^2 + b - 6$ and $b^5 - b^4 - 35b^3 + 35b^2 - 36b + 36$ respectively. Find the other polynomial, if one of the polynomials is $b^4 - 7b^3 + 7b^2 - 7b + 6$.