

Topics in Algebra solution

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Problems in Section 3.9.

1. Find the greatest common divisor of the following polynomials over F , the field of rational numbers.

a) $x^3 - 6x^2 + x + 4$ and $x^3 - 6x + 1$.

Solution. Observe that

$$\begin{aligned}x^3 - 6x + 1 &= (x^2 + 6x + 35)(x^3 - 6x^2 + x + 4) + 200x^2 - 65x - 139, \\x^3 - 6x^2 + x + 4 &= \left(\frac{x}{200} - \frac{227}{8000}\right)(200x^2 - 65x - 139) + \left(-\frac{239}{1600}x + \frac{447}{8000}\right), \\200x^2 - 65x - 139 &= \left(-\frac{320000}{239}x - \frac{3752000}{57121}\right)\left(-\frac{239}{1600}x + \frac{447}{8000}\right) - \frac{7730176}{57121}, \\-\frac{239}{1600}x + \frac{447}{8000} &= \left(\frac{13651919}{12368281600}x - \frac{25533087}{61841408000}\right)\left(-\frac{7730176}{57121}\right) + 0\end{aligned}$$

Thus the greatest common divisor of $x^3 - 6x^2 + x + 4$ and $x^3 - 6x + 1$ is 1. \square

b) $x^2 + 1$ and $x^6 + x^3 + x + 1$.

Solution. Note that $x^6 + x^3 + x + 1 = (x^4 - x^2 + x + 1)(x^2 + 1)$ so that their greatest common divisor is $x^2 + 1$. \square

2. Prove that

a) $x^2 + x + 1$ is irreducible over F , the field of integers mod 2.

Proof. Substituting $x = 0$ and $x = 1$ both to $x^2 + x + 1$ yields 1 mod 2, so that $x^2 + x + 1$ is irreducible over F . \square

b) $x^2 + 1$ is irreducible over the integers mod 7.

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