# 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 $x^5 - 6x + 1$.

*Solution.* Observe that

$$x^5 - 6x + 1 = (x^2 + 6x + 35)(x^3 - 6x^2 + x + 4) + 200x^2 - 65x - 139,$$

$$x^3 - 6x^2 + x + 4 = \left( \frac{x}{200} - \frac{227}{8000} \right)(200x^2 - 65x - 139) + \left( -\frac{239}{1600}x + \frac{447}{8000} \right),$$

$$200x^2 - 65x - 139 = \left( -\frac{320000}{239}x - \frac{3752000}{57121} \right)\left( -\frac{239}{1600}x + \frac{447}{8000} \right) - \frac{7730176}{57121},$$

$$-\frac{239}{1600}x + \frac{447}{8000} = \left( \frac{13651919}{12368281600}x - \frac{25533087}{61841408000} \right)\left( -\frac{7730176}{57121} \right) + 0$$

Thus the greatest common divisor of $x^3 - 6x^2 + x + 4$ and $x^5 - 6x + 1$ is 1. ◻

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 $x^2 + 1$. ◻

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 $F$. ◻

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

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**Shasha Hu**

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