

## Exercises: Representing Elements (Abstract Algebra) Class Project 2

Exercise 1: Consider the polynomial ring  $R[x]$  over the integers  $\mathbb{Z}$ . Let  $f(x) = x^2 + 1$  and  $g(x) = x^2 + 2x + 1$ . Compute the greatest common divisor  $\gcd(f, g)$  in  $R[x]$ . Show that  $\gcd(f, g) = 1$  and that  $f$  and  $g$  are coprime in  $R[x]$ . (Hint: Use the Euclidean algorithm.)

### Answers

#### Exercise 1: Representing Elements (Abstract Algebra) Class Project 2

The greatest common divisor  $\gcd(f, g)$  in  $R[x]$  is 1. To see this, note that  $f(x) = x^2 + 1$  and  $g(x) = x^2 + 2x + 1$ . We can use the Euclidean algorithm to find  $\gcd(f, g)$ . First, we divide  $f(x)$  by  $g(x)$  to get a remainder  $r_1(x)$ .

$f(x) = 1 \cdot g(x) + r_1(x)$

where  $r_1(x) = -2x$ .

Next, we divide  $g(x)$  by  $r_1(x)$  to get a remainder  $r_2(x)$ .

$g(x) = (-1/2) \cdot r_1(x) + r_2(x)$

where  $r_2(x) = 1$ .

Since  $r_2(x) = 1$ , we have  $\gcd(f, g) = 1$ .

#### Exercise 2:

1.  $\mathbb{Z}$  is a subring of  $\mathbb{Z}[x]$ .

2.  $\mathbb{Z}$  is a subring of  $\mathbb{Z}[x]$ .

3.  $\mathbb{Z}$  is a subring of  $\mathbb{Z}[x]$ .

#### Exercise 3: Representing Elements (Abstract Algebra) Class Project 2

In  $\mathbb{Z}[x]$ , the greatest common divisor  $\gcd(f, g)$  is 1. To see this, note that  $f(x) = x^2 + 1$  and  $g(x) = x^2 + 2x + 1$ . We can use the Euclidean algorithm to find  $\gcd(f, g)$ . First, we divide  $f(x)$  by  $g(x)$  to get a remainder  $r_1(x)$ .

$f(x) = 1 \cdot g(x) + r_1(x)$

where  $r_1(x) = -2x$ .

Next, we divide  $g(x)$  by  $r_1(x)$  to get a remainder  $r_2(x)$ .

$g(x) = (-1/2) \cdot r_1(x) + r_2(x)$

where  $r_2(x) = 1$ .

Since  $r_2(x) = 1$ , we have  $\gcd(f, g) = 1$ .

#### Exercise 4:

1.  $\mathbb{Z}$  is a subring of  $\mathbb{Z}[x]$ .

2.  $\mathbb{Z}$  is a subring of  $\mathbb{Z}[x]$ .

3.  $\mathbb{Z}$  is a subring of  $\mathbb{Z}[x]$ .

4.  $\mathbb{Z}$  is a subring of  $\mathbb{Z}[x]$ .

5.  $\mathbb{Z}$  is a subring of  $\mathbb{Z}[x]$ .

# Guide To Networking Solutions 6th Case Project

**J Spring**



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