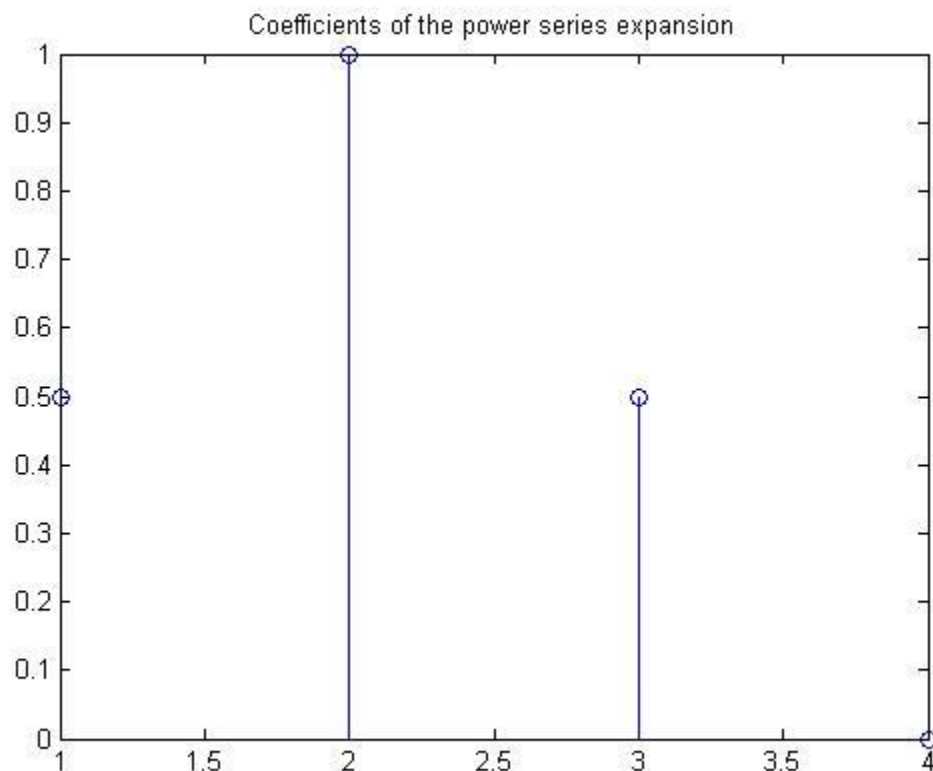


Experiment 28

Z-Inverse using inbuilt filter()

Using MATLAB's inbuilt function filter()

```
clear a1;  
clc;  
close all;  
  
N = 4;  
  
num = [1 2 1];  
den = [2];  
  
x = [1 zeros(1, N-1)];  
y = filter(num, den, x);  
  
stem(y),title('Coefficients of the power series expansion');
```



Conclusion

Inverse z transformation using inbuilt filter() method computed correctly.