

Command Window

```
>> Q1
```

```
>>
```

```
>> xA
```

```
xA =
```

```
    3.2099
```

```
    0.2346
```

```
    0.7160
```

```
>> xB
```

```
xB =
```

```
   -0.1132
```

```
    0.0755
```

```
    1.5660
```

fx >> |

Check:

```
>> %Check
>> 3*xA(1) + 1*xA(2) + -4*xA(3)

ans =

    7.0000

>> -2*xA(1) + 3*xA(2) + 1*xA(3)

ans =

    -5

>> 2*xA(1) + 0*xA(2) + 5*xA(3)

ans =

    10

>> 1*xB(1) + -2*xB(2) + 4*xB(3)

ans =

     6

>> 8*xB(1) + -3*xB(2) + 2*xB(3)

ans =

     2

>> -1*xB(1) + 10*xB(2) + 2*xB(3)

ans =

    4.0000
```

fx

>> |

Brief Report:

For part a, I got $x_1=3.2099$, $x_2=0.2346$ and $x_3=0.7160$. For part b, I got $x_1=-0.1132$, $x_2=0.0755$ and $x_3=1.5660$. I got these answers by utilizing the Gaussian-Jordan elimination algorithm. I tested my solutions by plugging them back into the equations. Everything checked out which means my solutions were correct.