The result of parabola equation:

Matrix equation is =
```
 1   1   1
 4  -2   1
 0   0   1
```

```
  0
 21
  1
```

The augmented matrix is =
```
 1   1   1   0
 4  -2   1   21
 0   0   1   1
```

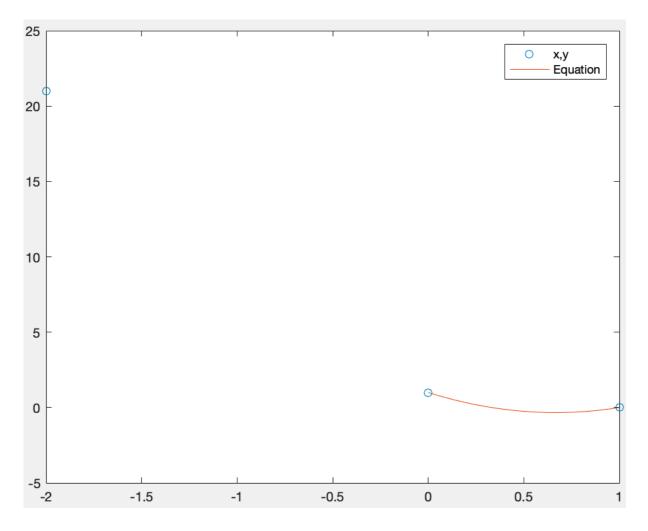The transformed upper triangular augmented matrix C is =

```
 1   1   1   0
 0  -6  -3   21
 0   0   1   1
```

The vector solution is =
```
  3
 -4
  1
```

The parabola equation solution is =
a1 = 3
a2 = -4
a3 = 1

The Parabola Result