```
% Constant
e = 1.6 * 10^-19;
c = 3*10^8;
```

```
% Change Data here
lamda = [365 405 436 546 577];
lamda = lamda .* 10^-9;
v = c ./ lamda;
Ua = [1.74 1.41 1.16 0.72 0.56];
```

```
% lets do the fit
v = v'
```

```
v = 5×1
           821917808219178
           740740740740741
           688073394495413
           549450549450549
           519930675909879
```

```
Ua = Ua'
```

```
Ua = 5×1
                     1.74
                     1.41
                     1.16
                     0.72
                     0.56
```

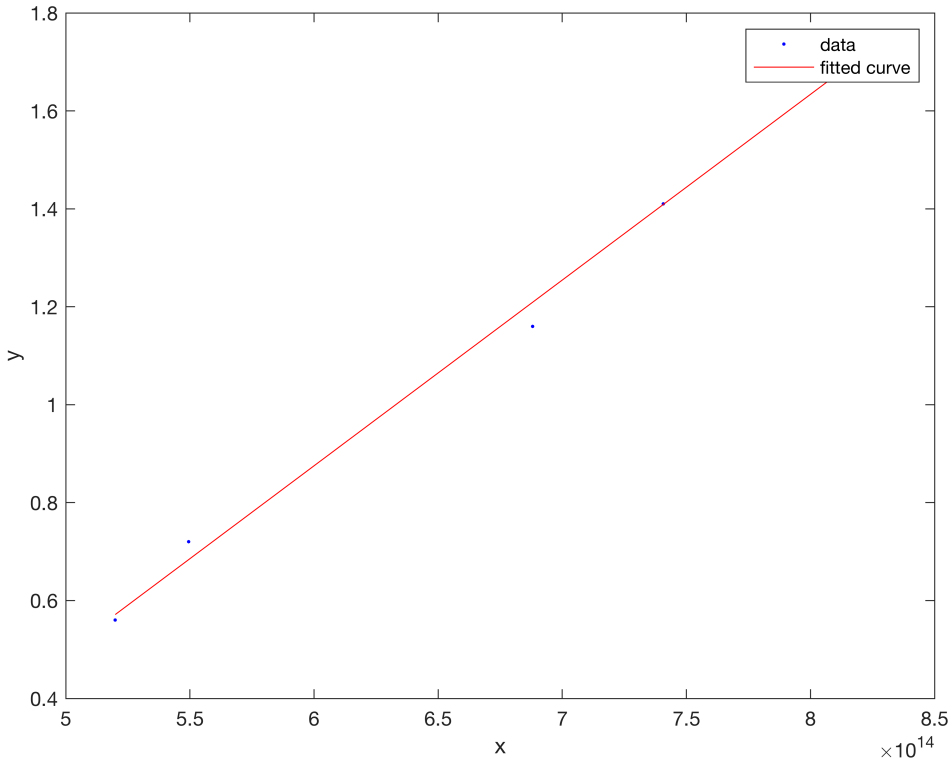
```
ftpx = fittype('poly1')
```

```
ftpx =
     Linear model Poly1:
     ftpx(p1,p2,x) = p1*x + p2
```

```
fx = fit(v, Ua, ftpx)
```

```
fx =
     Linear model Poly1:
     fx(x) = p1*x + p2
     Coefficients (with 95% confidence bounds):
       p1 =   3.793e-15  (3.315e-15, 4.271e-15)
       p2 =      -1.401  (-1.723, -1.078)
```

```
% Plot
plot(fx, v, Ua)
```




```
h = fx.p1 * e
```

```
h =
      6.06886046652697e-34
```