

```
% x' = x, x(0) = 2, for t in [0,5]
```

```
f = @(t,x) x
```

```
f = function_handle with value:  
@(t,x)x
```

```
x0 = 2
```

```
x0 =  
2
```

```
tspan = [0,5]
```

```
tspan = 1×2  
0 5
```

```
[t,x] = ode45(f,tspan,x0);
```

```
size(t)
```

```
ans = 1×2  
45 1
```

```
size(x)
```

```
ans = 1×2  
45 1
```

```
x(end) % value at final time
```

```
ans =  
2.9683e+02
```

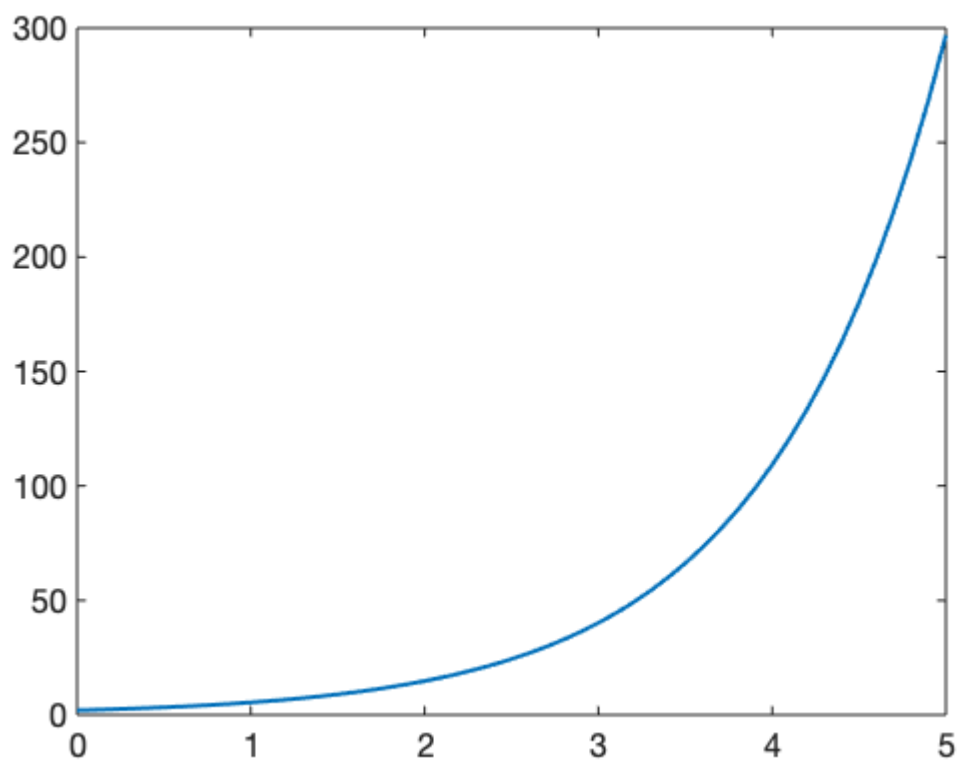
```
x(3) % NOT x at t=3
```

```
ans =  
2.2114e+00
```

```
f = @(t,x) x;  
x0 = 2;  
tspan = 0:0.1:5; % specify the output times  
[t,x] = ode45(f,tspan,x0);  
size(x)
```

```
ans = 1×2  
51 1
```

```
plot(t,x)
```



`semilogy(t,x)`

