```matlab
% Defining Symbolic Expressions
clc, clear

x = sym('x')
```

x = x

```matlab
x+x+x
```

ans = $3\,x$

```matlab
clc, clear
syms x k t
```

```matlab
x + x + x + 2 * k + t ^ 2
```

ans = $t^2 + 2\,k + 3\,x$

```matlab
x = t * k^2
```

x = $k^2\,t$

```matlab
clc, clear
syms x1 x2 a b c
x1 = (-b + (b^2 - 4*a*c)^(1/2))/(2*a)
```

x1 =

$$-\frac{b - \sqrt{b^2 - 4\,a\,c}}{2\,a}$$

```matlab
x2 = (-b - (b^2 - 4*a*c)^(1/2))/(2*a)
```

x2 =

$$-\frac{b + \sqrt{b^2 - 4\,a\,c}}{2\,a}$$

```matlab
x1 + x2
```

ans =

$$-\frac{b + \sqrt{b^2 - 4\,a\,c}}{2\,a} - \frac{b - \sqrt{b^2 - 4\,a\,c}}{2\,a}$$

```matlab
syms y1 y2 x
```

```matlab
y1 = (x+1)^2
```

y1 = $(x+1)^2$

```matlab
y2 = x^2 + 2*x + 1
```

y2 $=$ $x^2 + 2x + 1$

```
if y1 == y2
    disp('ay')
else
    disp('bruh moment')
end
```

bruh moment

```
clc, clear
syms e m c

e = m*c^2
```

e $=$ $c^2 m$

```
solve(e, c)
```

ans =

$$\begin{pmatrix} 0 \\ 0 \end{pmatrix}$$

```
clc, clear
syms e m c

eqn = e == m*c^2
```

eqn $=$ $e = c^2 m$

```
solve(eqn, c)
```

ans =

$$\begin{pmatrix} \dfrac{\sqrt{e}}{\sqrt{m}} \\ -\dfrac{\sqrt{e}}{\sqrt{m}} \end{pmatrix}$$