

# MATLAB Graphics: Mathematical Symbols

## Notes:

Various mathematical symbols can be displayed using `text`, `xlabel`, `ylabel`, and `title`.

## Example Script:

```
% Script File: ShowMathSymbols
% How to produce math symbols.

close all
figure
axis off
hold on
fill([0 12 12 0 0],[0 0 12 12 0],'w')
plot([0 12 12 0 0],[0 0 12 12 0],'k','Linewidth',3)
hold off
text(6,10.5,'Math Symbols','color','r','FontSize',18,'HorizontalAlignment','center')
x = 1; x1 = x+.7;
y = 4.6; y1 = y+.7;
z = 9; z1 = z+.7;
n = 12;

text(y,9,'\leftarrow :');      text(y1,9,'\leftarrow')
text(y,8,'\rightarrow :');     text(y1,8,'\rightarrow')
text(y,7,'\uparrow :');      text(y1,7,'\uparrow')
text(y,6,'\downarrow :');    text(y1,6,'\downarrow')
text(y,5,'\Leftarrow :');    text(y1,5,'\Leftarrow')
text(y,4,'\Rightarrow :');     text(y1,4,'\Rightarrow')
text(y,3,'\Leftrightarrow :'); text(y1,3,'\Leftrightarrow')
text(y,2,'\partial :');      text(y1,2,'\partial')

text(x,9,'\neq :');          text(x1,9,'\neq')
text(x,8,'\geq :');          text(x1,8,'\geq')
text(x,7,'\approx :');      text(x1,7,'\approx')
text(x,6,'\equiv :');       text(x1,6,'\equiv')
text(x,5,'\cong :');        text(x1,5,'\cong')
text(x,4,'\pm :');          text(x1,4,'\pm')
text(x,3,'\nabla :');       text(x1,3,'\nabla')
text(x,2,'\angle :');        text(x1,2,'\angle')

text(z,9,'\in :');          text(z1,9,'\in')
text(z,8,'\subset :');     text(z1,8,'\subset')
text(z,7,'\cup :');        text(z1,7,'\cup')
text(z,6,'\cap :');       text(z1,6,'\cap')
text(z,5,'\perp :');       text(z1,5,'\perp')
text(z,4,'\infty :');     text(z1,4,'\infty')
text(z,3,'\int :');       text(z1,3,'\int')
text(z,2,'\times :');     text(z1,2,'\times')

shg
```

Sample Output:

### Math Symbols

$\neq$ : \neq	$\leftarrow$ : \leftarrow	$\in$ : \in
$\geq$ : \geq	$\rightarrow$ : \rightarrow	$\subset$ : \subset
$\approx$ : \approx	$\uparrow$ : \uparrow	$\cup$ : \cup
$\equiv$ : \equiv	$\downarrow$ : \downarrow	$\cap$ : \cap
$\cong$ : \cong	$\Leftarrow$ : \Leftarrow	$\perp$ : \perp
$\pm$ : \pm	$\Rightarrow$ : \Rightarrow	$\infty$ : \infty
$\nabla$ : \nabla	$\Leftrightarrow$ : \Leftrightarrow	$\int$ : \int
$\angle$ : \angle	$\partial$ : \partial	$\times$ : \times