



## lesson 42 Math.h

We usually include the library `stdio.h` so we can use the `printf` and `scanf`.

Today we are going to include the library `math.h`.

If you want to use the `sqrt()`, you can't without including the library `math.h`. It also contains some other functions like `cos`, `sin`, `tan` ..

Example using `SQRT()` :

```
#include <stdio.h>
#include <math.h>
int main() {
int x = sqrt(16);
printf("%d", x);
}
```

**output :**

4

Try the code : [Click here !](#).

Example using `Pow(x,y)` :

```
#include <stdio.h>
#include <math.h>
```



```
int main() {  
int x = pow(5, 2);  
printf("%d", x);  
}
```

output :

25=(5^2)

Try the code : [Click here !](#)

Example using cos, sin ,tan :

```
#include <stdio.h>  
#include <math.h>  
int main() {  
float x = sin(90);  
printf("%f", x);  
}
```

output :

0.893997

Try the code : [Click here !](#)