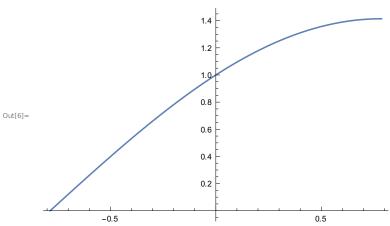
# practice sheet 2

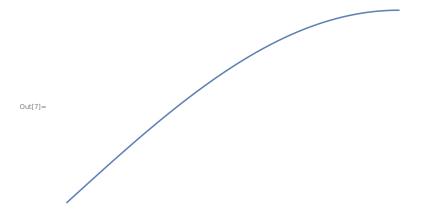
# 1. Plot the graph.

In[6]:=

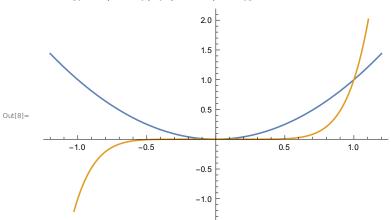
Plot[Sin[x] + Cos[x], {x, -Pi/4, Pi/4}]



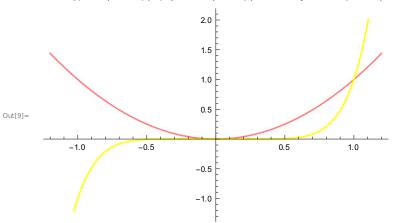
n[7]:= Plot[Sin[x] + Cos[x], {x, -Pi/4, Pi/4}, Axes  $\rightarrow$  False]



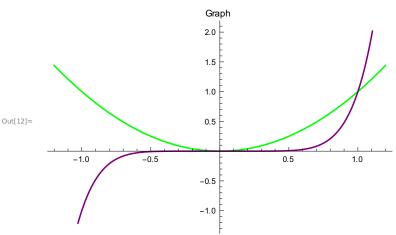
ln[8]:= Plot[{x^2, x^7}, {x, -1.2, 1.2}]



 $\label{eq:local_local_problem} \mathsf{Plot}[\{x \land 2\,,\, x \land 7\}\,,\, \{x\,,\, -1.2\,,\, 1.2\}\,,\,\, \mathsf{PlotStyle} \ \rightarrow \{\mathsf{Pink}\,\,,\,\, \mathsf{Yellow}\,\}]$ 

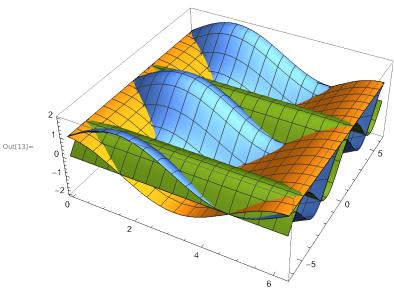


 $\label{eq:local_problem} $$ \inf[12]:=$ $\operatorname{Plot}[\{x \land 2, \ x \land 7\}, \ \{x, \ -1.2, \ 1.2\}, \ \operatorname{PlotStyle} \to \{\operatorname{Green}, \ \operatorname{Purple}\}, \ \operatorname{PlotLabel} \to \operatorname{Graph}]$$ 



### 2. Find how a 3D curve of the following expressions look.

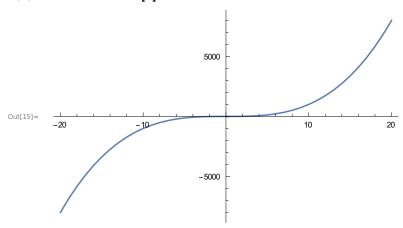
ln[13]:= Plot3D [{Cos[u], Sin[u] + Cos[v], Sin[v]}, {u, 0, 2 \* Pi}, {v, -2 \* Pi, 2 \* Pi}]



#### 3. Construct a table of cubes.

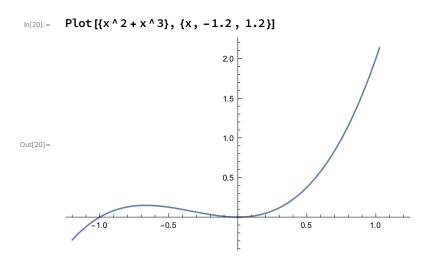
ln[14]:= T = Table [{x, x^3}, {x, -20, 20}]

In[15]:= ListLinePlot [T]



# 4. Define a function $x^2+x^4$ and find the values of the function at 2,5,10.

```
In[16]:= f[x_] := x^2 + x^4
f[2]
Out[17]= 20
In[18]:= f[5]
Out[18]= 650
In[19]:= f[10]
Out[19]= 10 100
```



## 5. write a small code showing an error.

```
\label{eq:plot_problem} \begin{tabular}{ll} \begin{tabular}{ll}
```