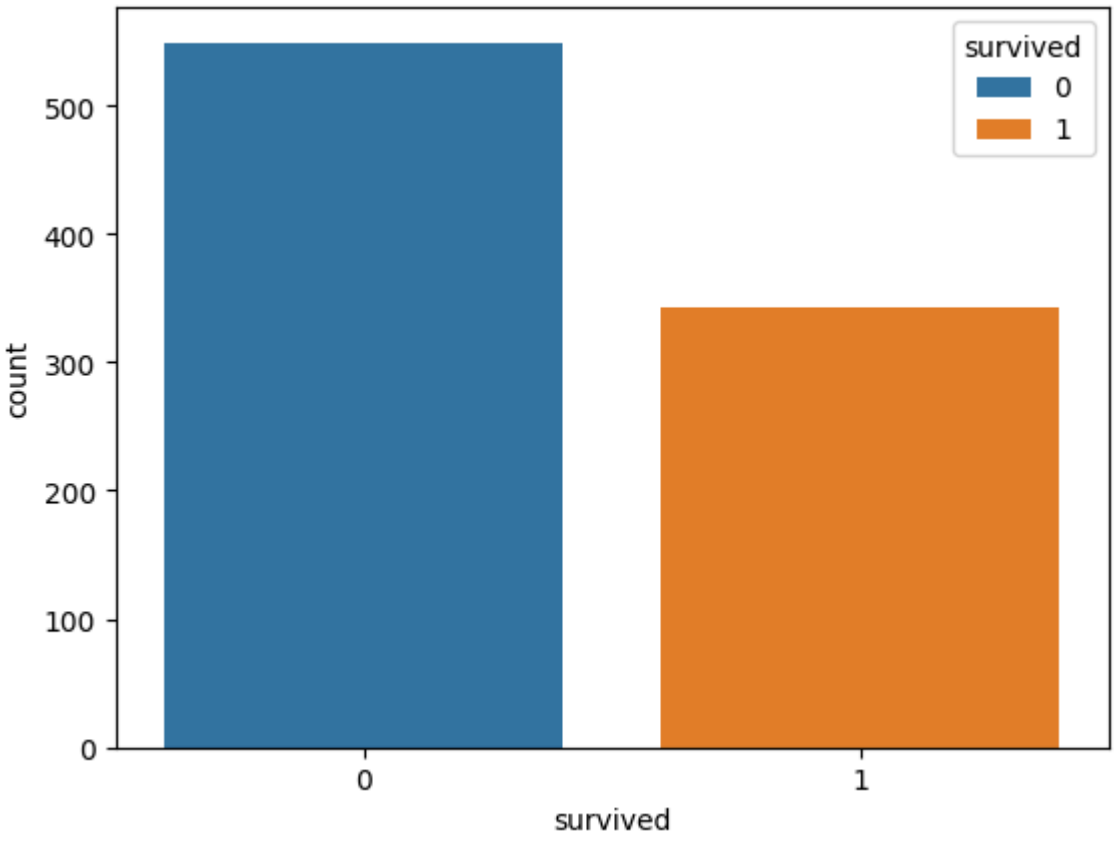
In [20]:
```
import numpy as np
import pandas as pd
import matplotlib.pyplot as plt
import seaborn as sns
```

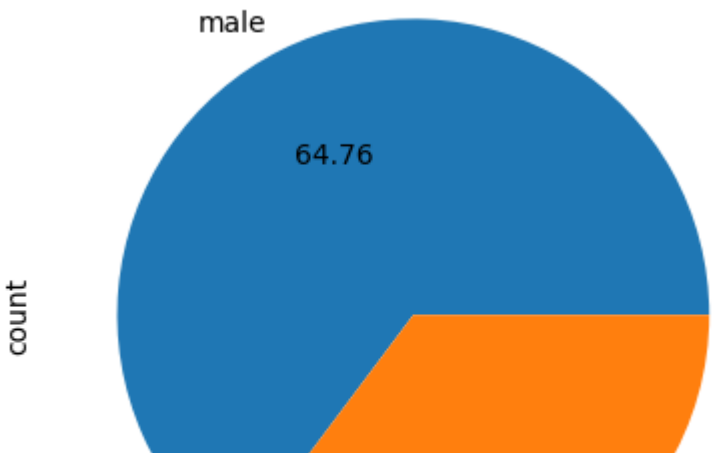
In [21]:
```
titanic = sns.load_dataset("titanic")
tips = sns.load_dataset("tips")
```

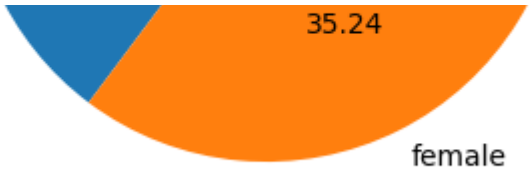
In [22]:
```
sns.countplot(x="survived", data=titanic, hue="survived")
```

Out[22]:
```
<Axes: xlabel='survived', ylabel='count'>
```



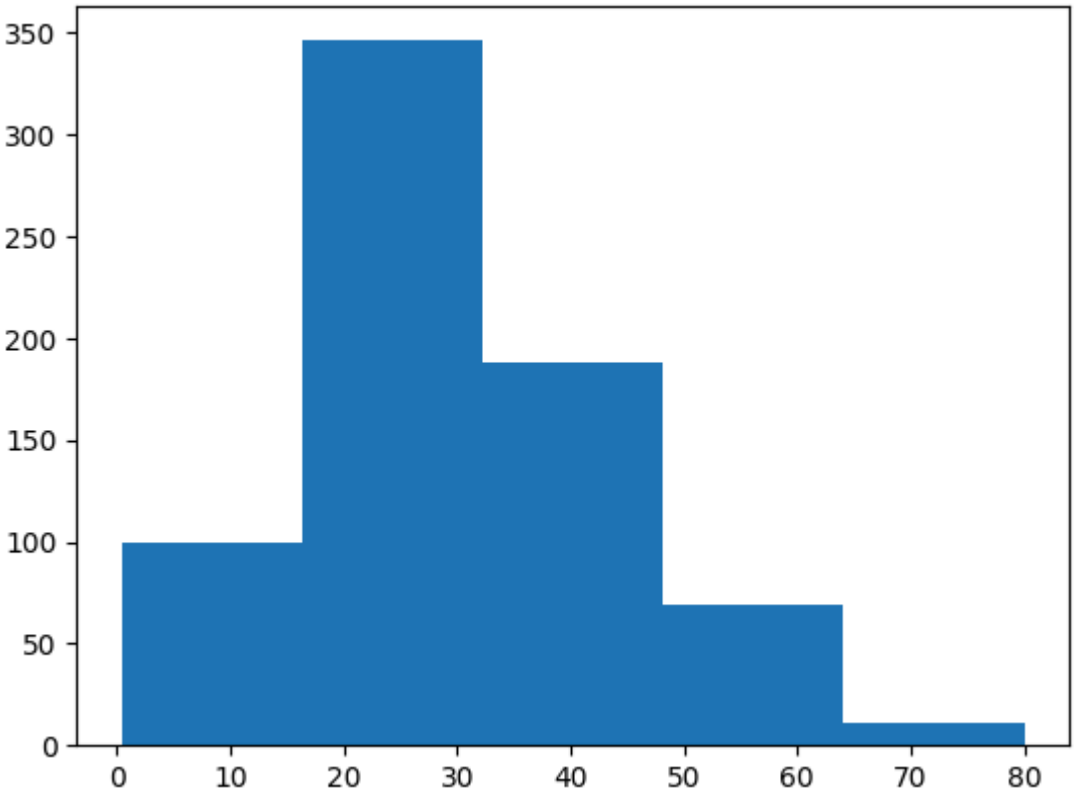
In [23]:
```
titanic['sex'].value_counts().plot(kind="pie", autopct="%.2f")
plt.show()
```





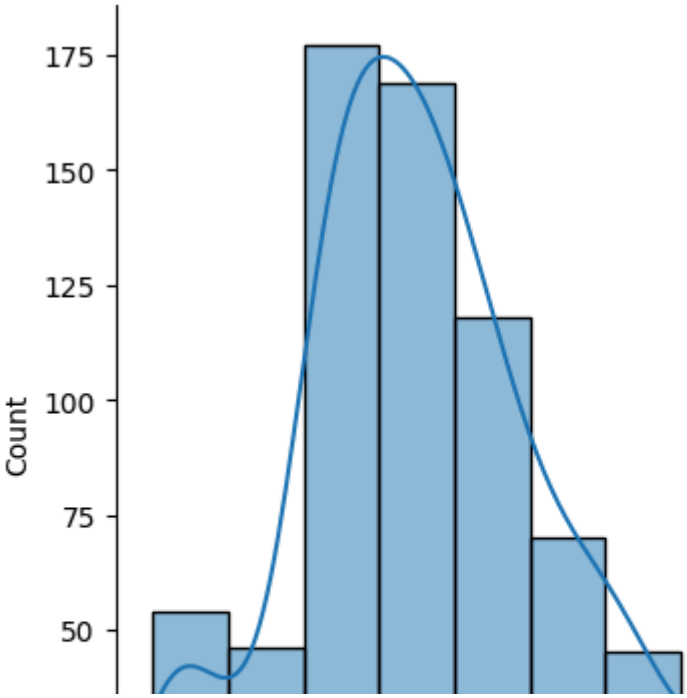
In [24]:

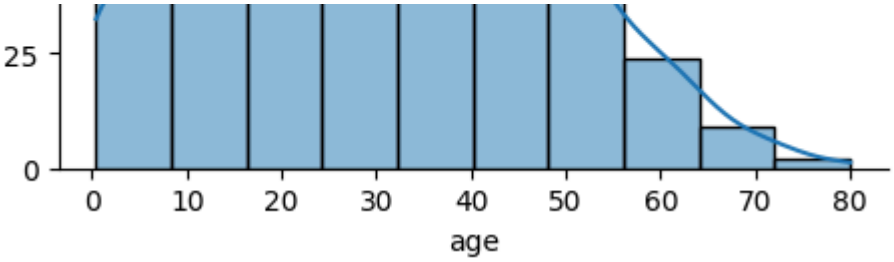
```
plt.hist(titanic['age'], bins=5)
plt.show()
```



In [25]:

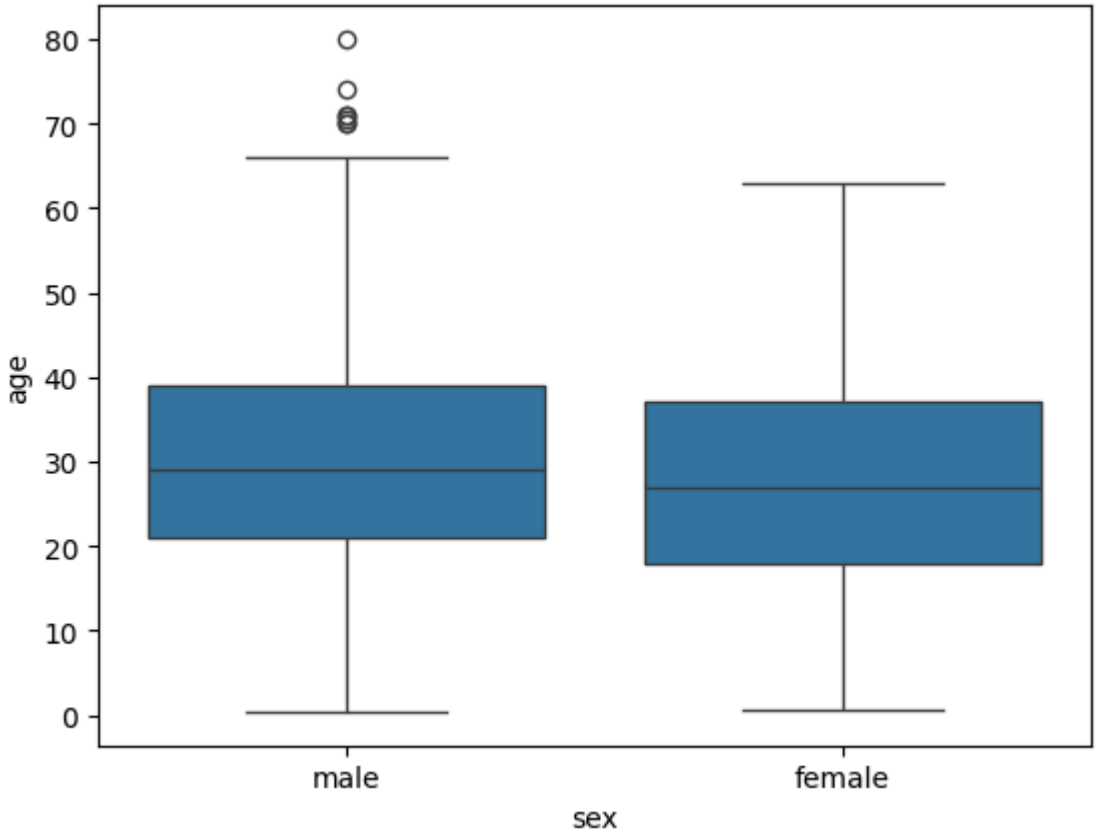
```
sns.displot(x=titanic["age"].dropna(), bins=10, kde=True)
plt.show()
```





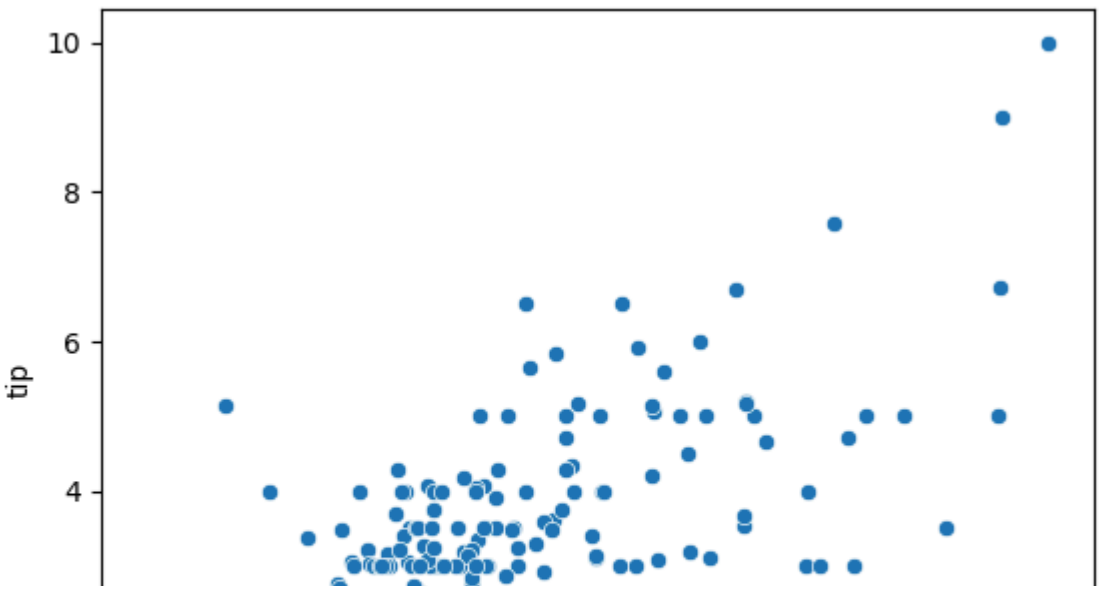
In [26]:
```
sns.boxplot(x="sex", y="age", data=titanic)
```

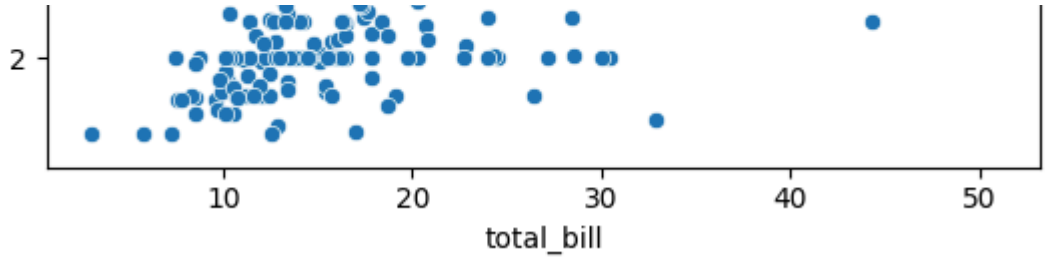
Out[26]: <Axes: xlabel='sex', ylabel='age'>



In [27]:
```
sns.scatterplot(x=tips["total_bill"], y=tips["tip"])
```

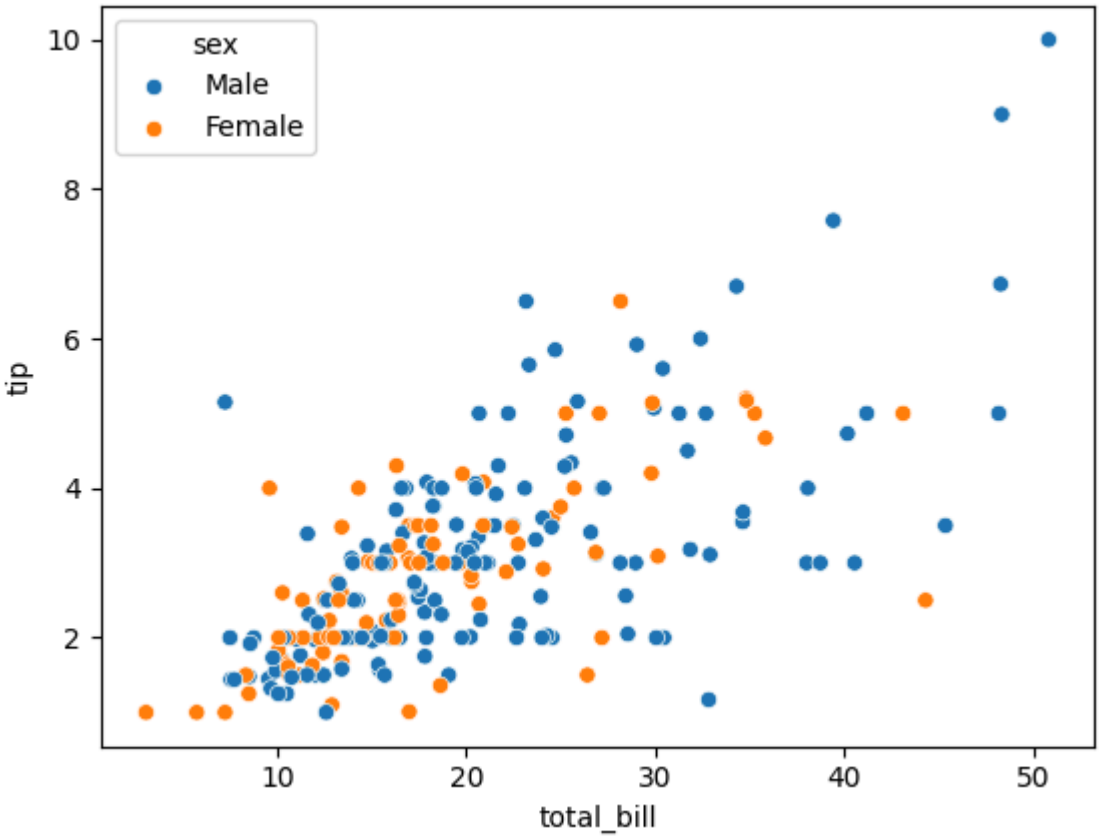
Out[27]: <Axes: xlabel='total_bill', ylabel='tip'>





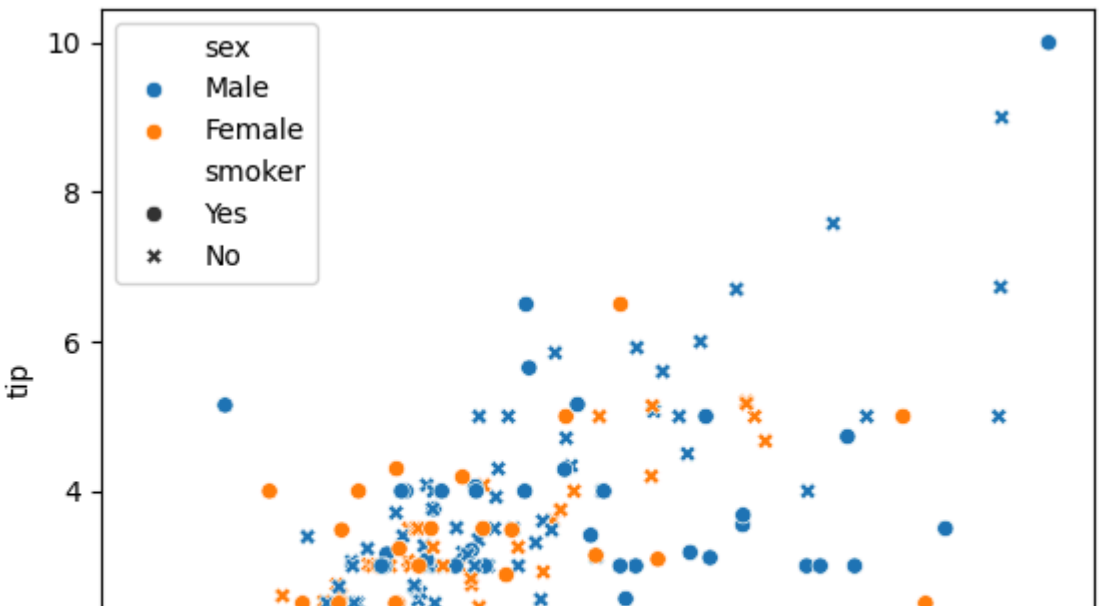
In [28]:

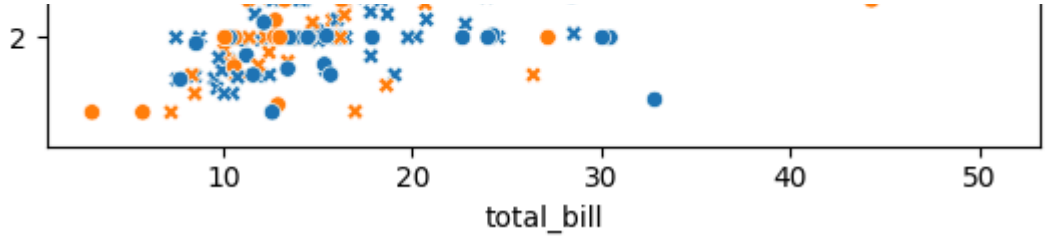
```
sns.scatterplot(x=tips["total_bill"], y=tips["tip"], hue=tips["sex"])
plt.show()
```



In [29]:

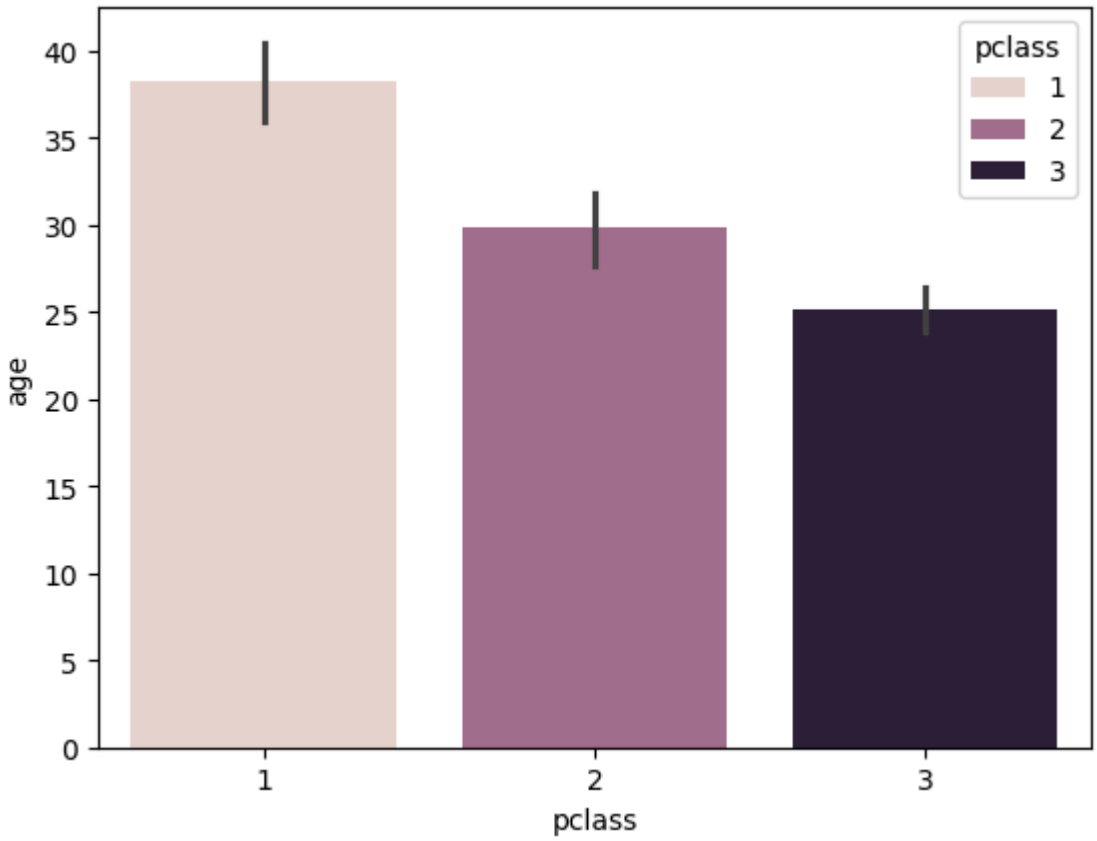
```
sns.scatterplot(x=tips["total_bill"], y=tips["tip"], hue=tips["sex"],
style=tips['smoker'])
plt.show()
```





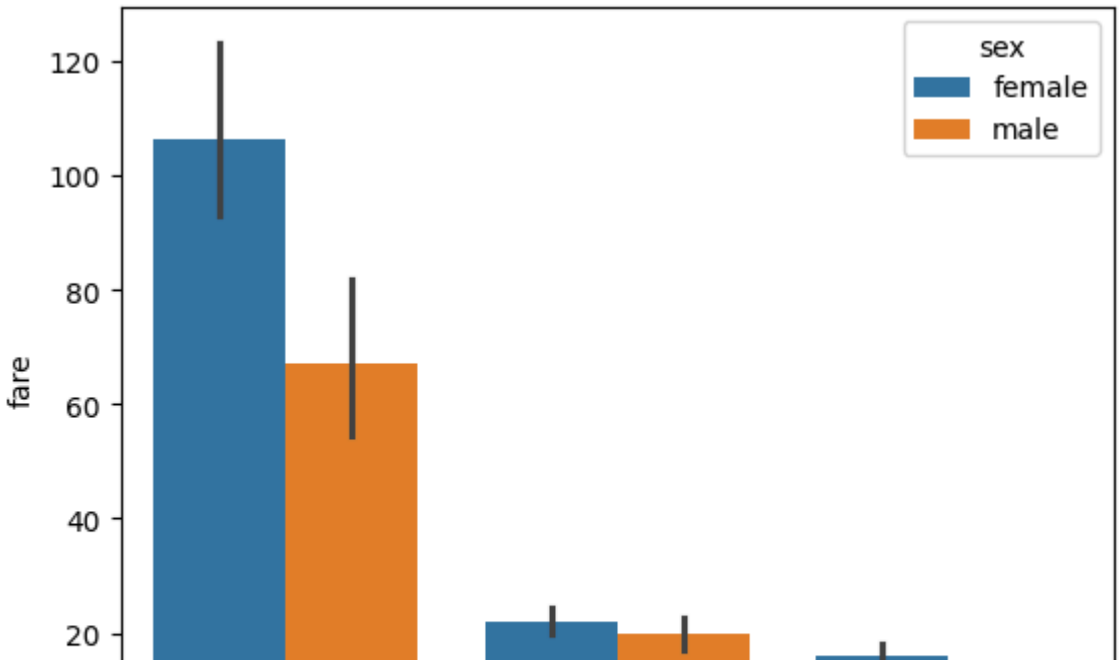
In [30]:

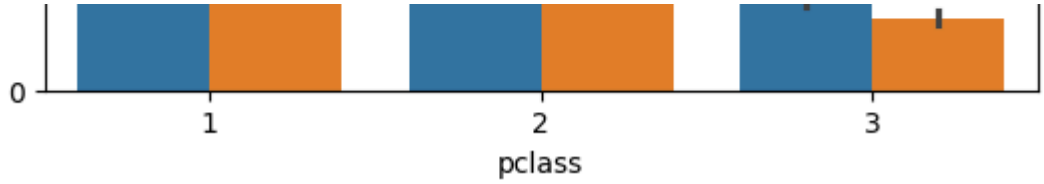
```
sns.barplot(x="pclass", y="age", hue="pclass", data=titanic)
plt.show()
```



In [31]:

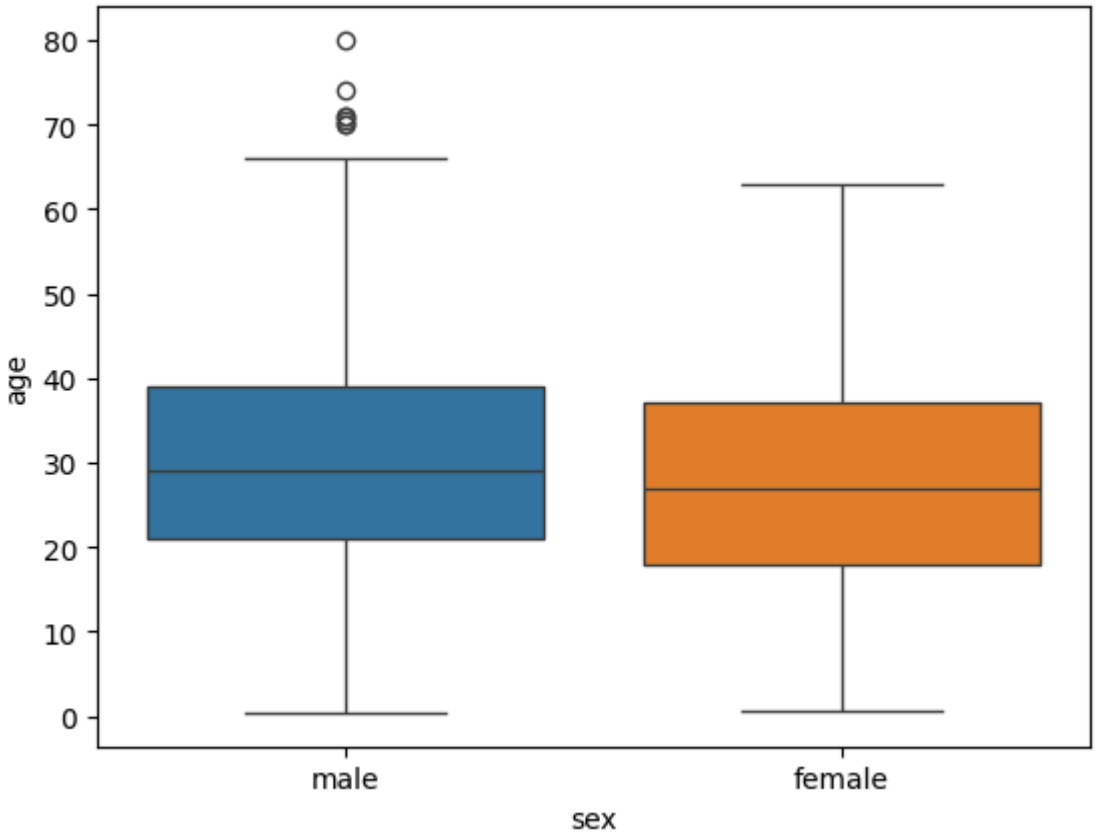
```
sns.barplot(x="pclass", y="fare", hue="sex", data=titanic)
plt.show()
```





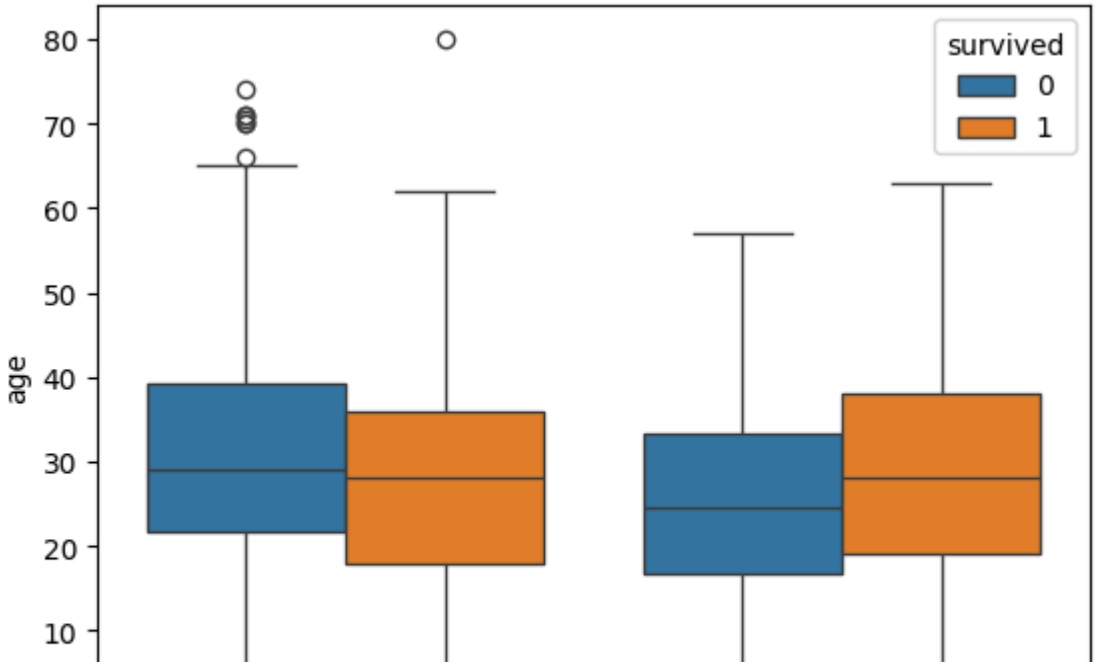
In [32]:
```
sns.boxplot(x="sex" , y="age" ,data=titanic , hue="sex")
```

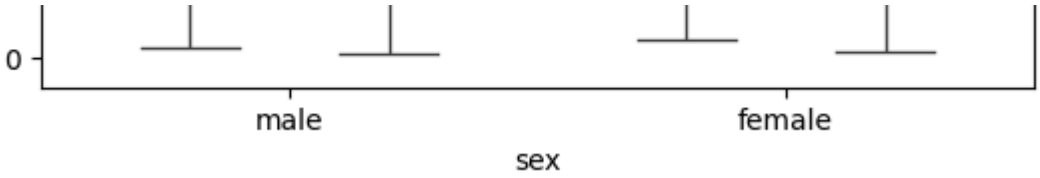
Out[32]: <Axes: xlabel='sex', ylabel='age'>



In [33]:
```
sns.boxplot(x="sex", y="age", hue="survived", data=titanic)
```

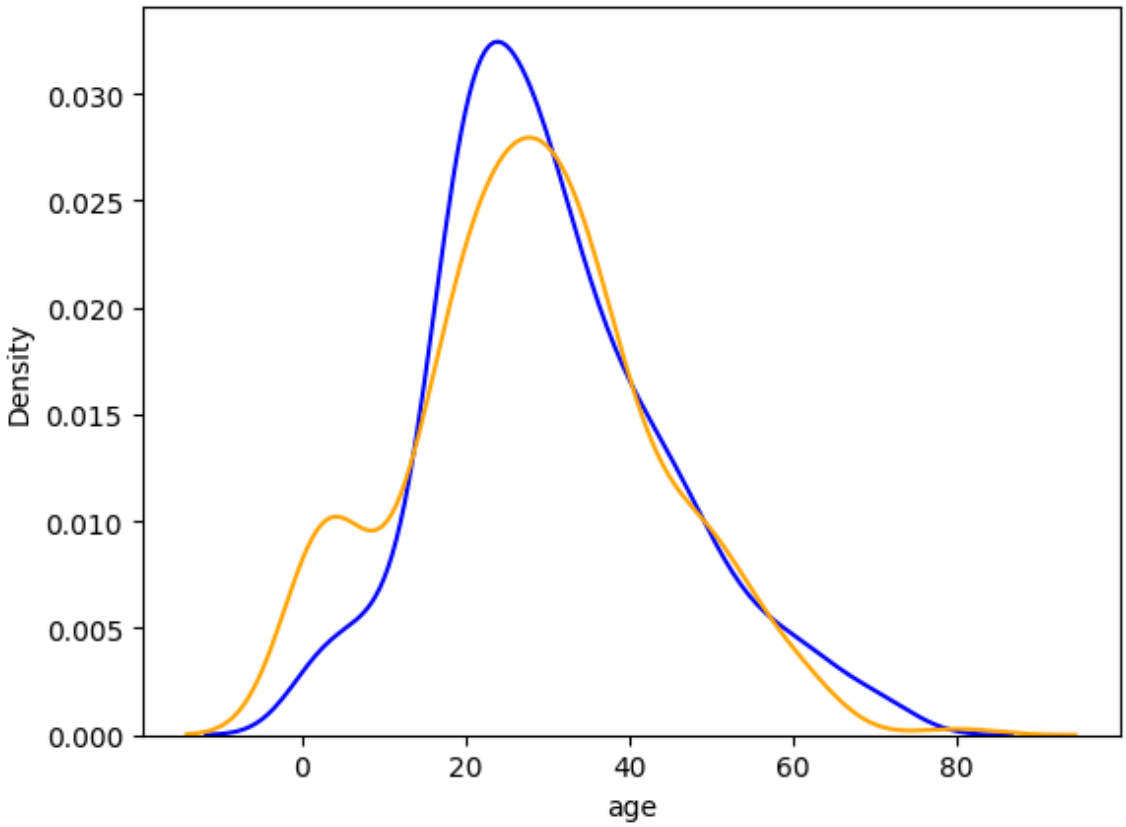
Out[33]: <Axes: xlabel='sex', ylabel='age'>





In [34]:
```
sns.kdeplot(titanic[titanic['survived'] == 0]['age'], color="blue", lab
sns.kdeplot(titanic[titanic['survived'] == 1]['age'], color="orange",
```

Out[34]: <Axes: xlabel='age', ylabel='Density'>



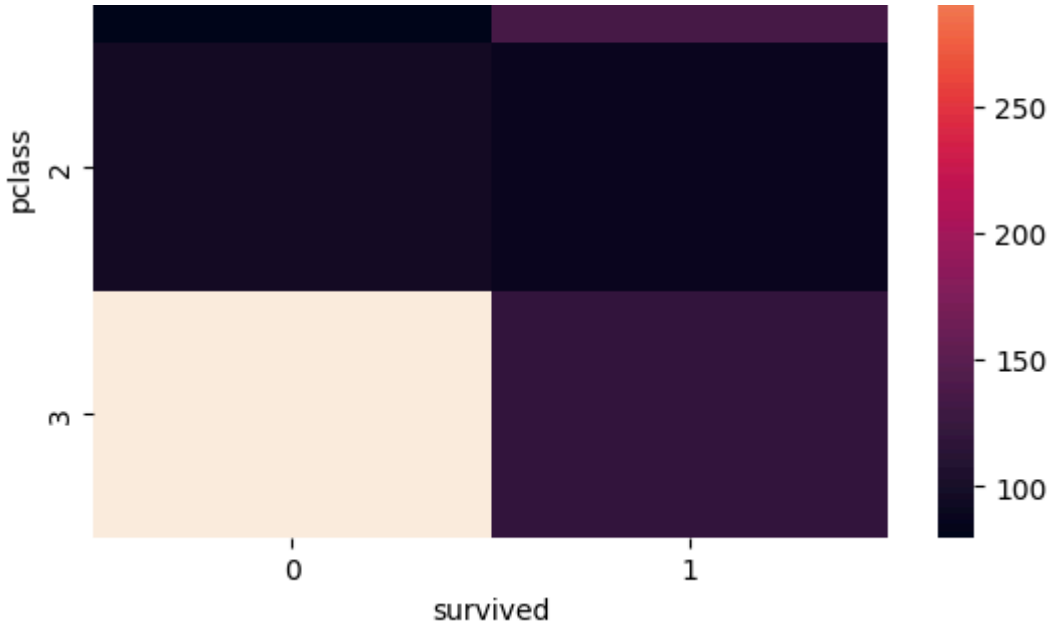
In [35]:
```
pd.crosstab(titanic['pclass'], titanic['survived'])
```

Out[35]:

survived	0	1
pclass		
1	80	136
2	97	87
3	372	119

In [36]:
```
sns.heatmap(pd.crosstab(titanic['pclass'], titanic['survived']))
```

Out[36]: <Axes: xlabel='survived', ylabel='pclass'>



In [37]:
```
sns.clustermap(pd.crosstab(titanic['parch'], titanic['survived']))
```

Out[37]: <seaborn.matrix.ClusterGrid at 0x12ed40050>