In [1]:
```
import pandas as pd
```

In [2]:
```
import numpy as nm
```

In [3]:
```
import matplotlib.pyplot as plt
```

In [4]:
```
import seaborn as sns
```

In [5]:
```
df=sns.load_dataset('titanic')
```

In [6]:
```
df.head()
```

Out[6]:

	survived	pclass	sex	age	sibsp	parch	fare	embarked	class	who	adult_male
0	0	3	male	22.0	1	0	7.2500	S	Third	man	True
1	1	1	female	38.0	1	0	71.2833	C	First	woman	False
2	1	3	female	26.0	0	0	7.9250	S	Third	woman	False
3	1	1	female	35.0	1	0	53.1000	S	First	woman	False
4	0	3	male	35.0	0	0	8.0500	S	Third	man	True

In [7]:
```
df.isnull().sum()
```

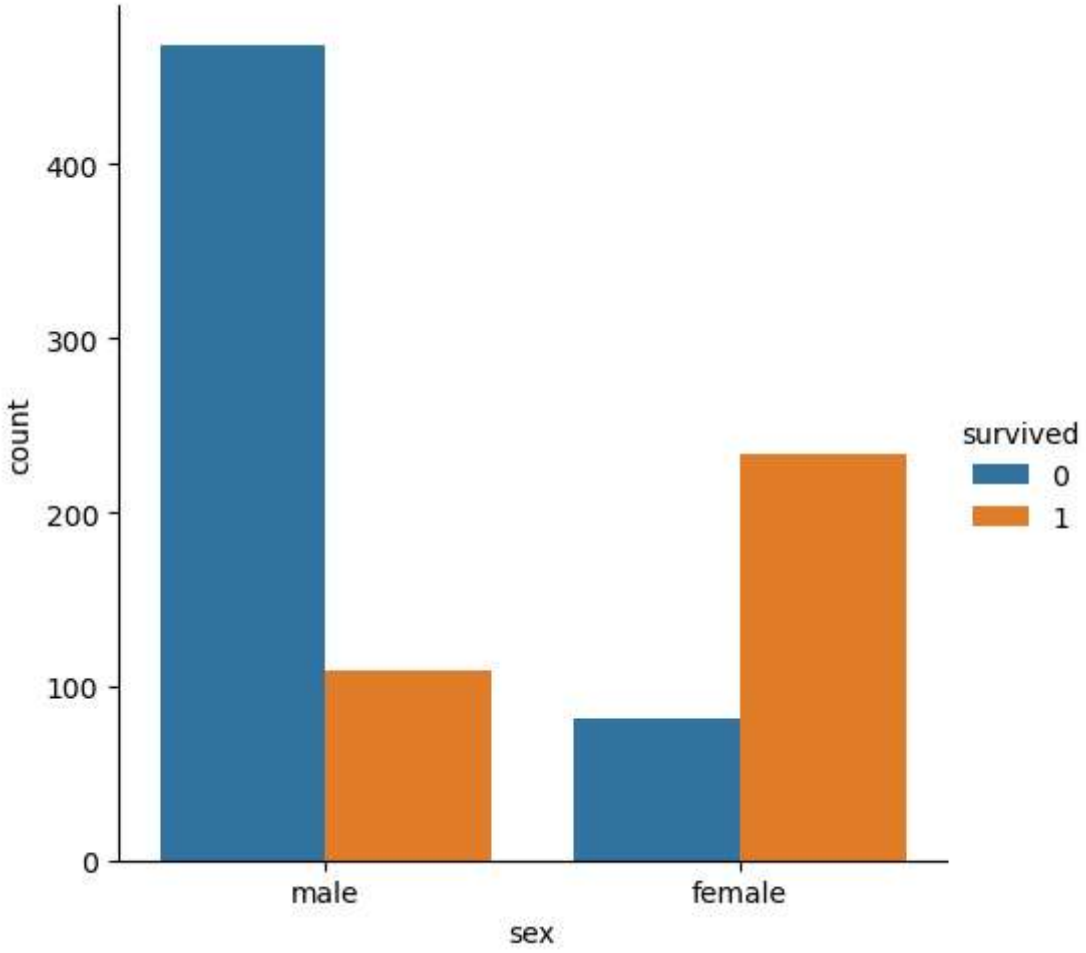
Out[7]:
```
survived         0
pclass           0
sex              0
age            177
sibsp            0
parch            0
fare             0
embarked         2
class            0
who              0
adult_male       0
deck           688
embark_town      2
alive            0
alone            0
dtype: int64
```

In [9]:
```
df['age']=df['age'].replace(nm.nan,df['age'].mean())
```

In [10]:
```
sns.catplot(x='sex',hue='survived',kind='count',data=df)
```

```
C:\Users\Vishw\anaconda3\Lib\site-packages\seaborn\axisgrid.py:118: UserWarni
ng: The figure layout has changed to tight
  self._figure.tight_layout(*args, **kwargs)
```

Out[10]:
```
<seaborn.axisgrid.FacetGrid at 0x21153760150>
```

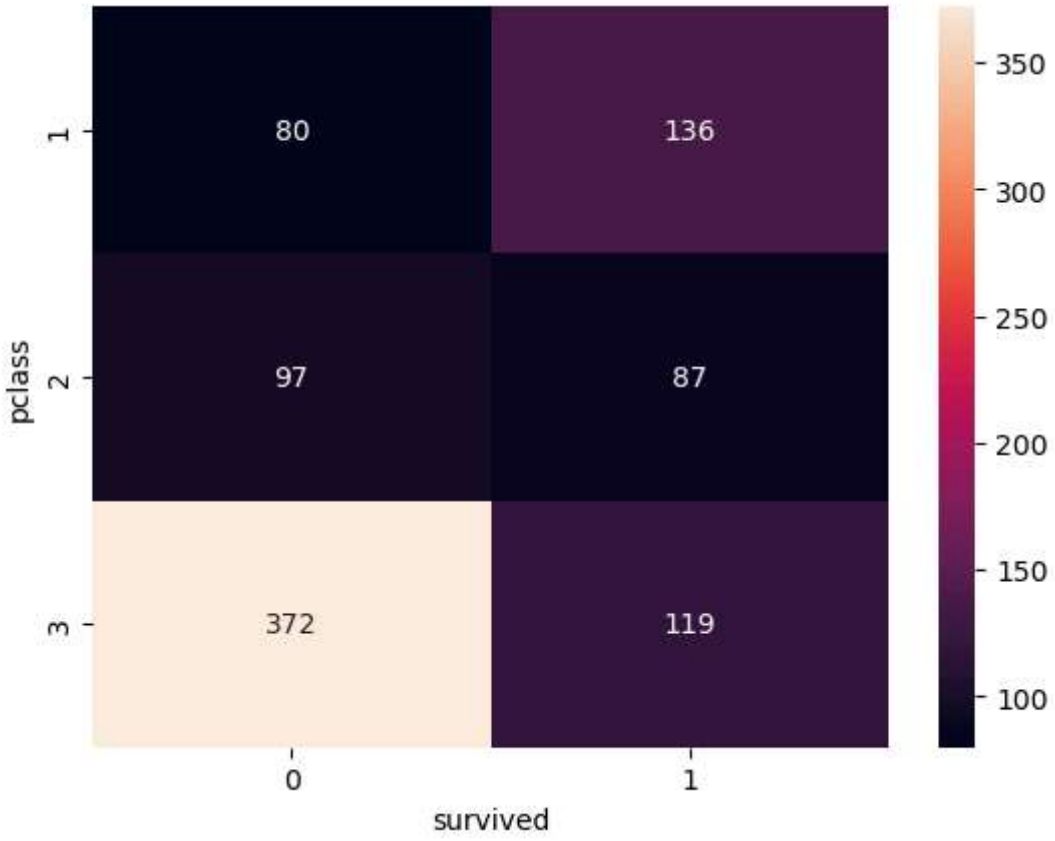


In [12]:
```
group=df.groupby(['pclass','survived'])
```

In [13]:
```
pclass_survived=group.size().unstack()
```

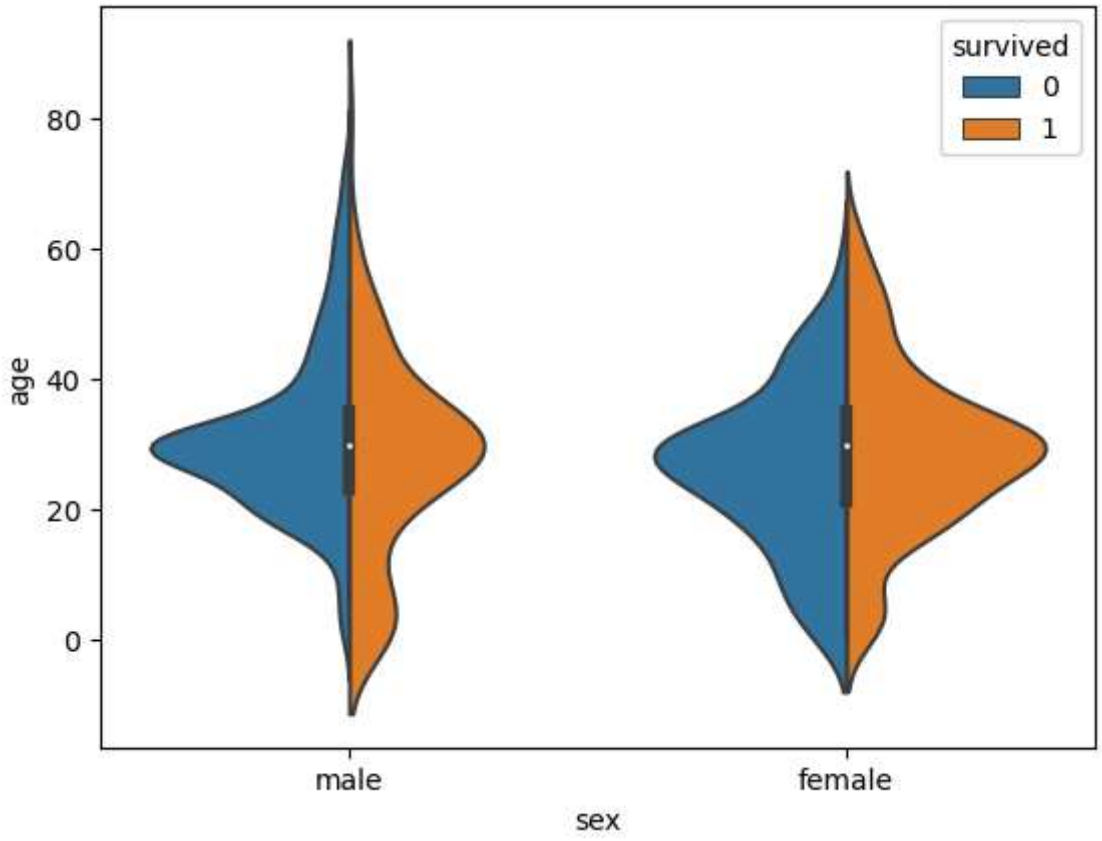
In [14]:
```
sns.heatmap(pclass_survived,annot=True,fmt="d")
```

Out[14]:
```
<Axes: xlabel='survived', ylabel='pclass'>
```



In [16]:
```
sns.violinplot(x='sex',y='age',hue='survived',data=df,split=True)
```

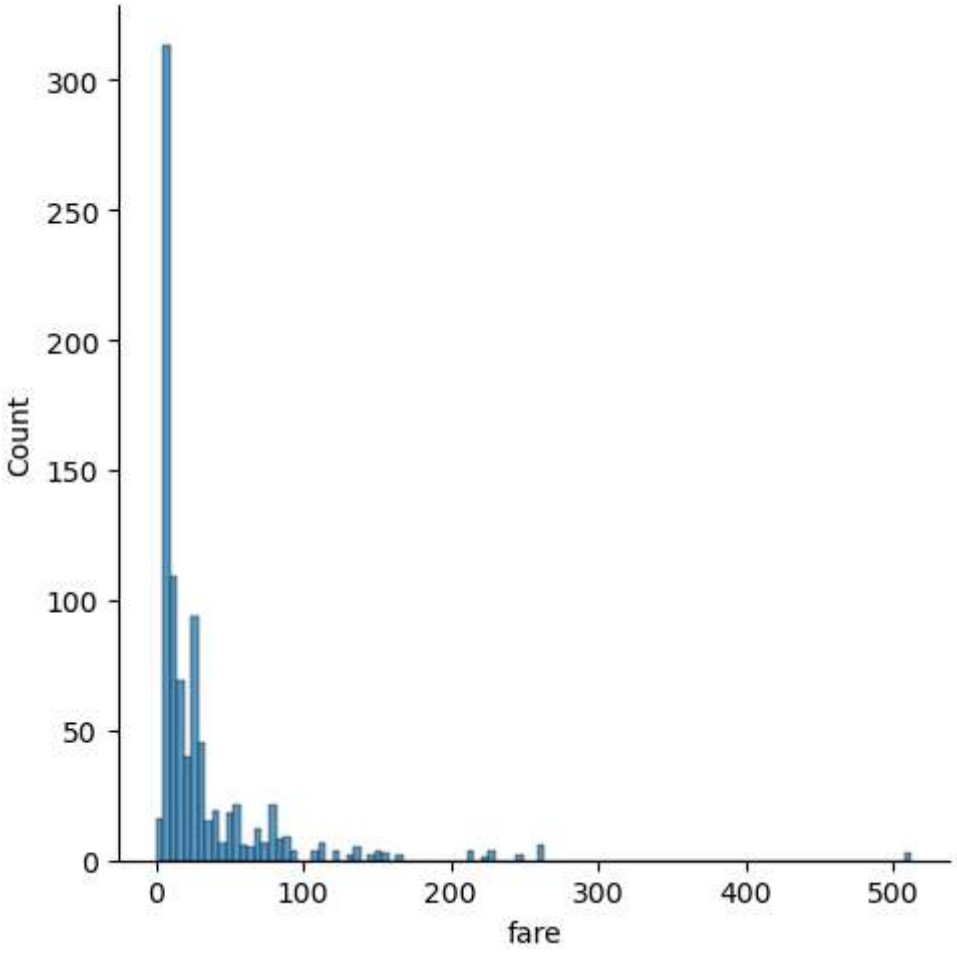
Out[16]:
```
<Axes: xlabel='sex', ylabel='age'>
```



In [17]:
```
sns.displot(df['fare'])
```

```
C:\Users\Vishw\anaconda3\Lib\site-packages\seaborn\axisgrid.py:118: UserWarni
ng: The figure layout has changed to tight
  self._figure.tight_layout(*args, **kwargs)
```

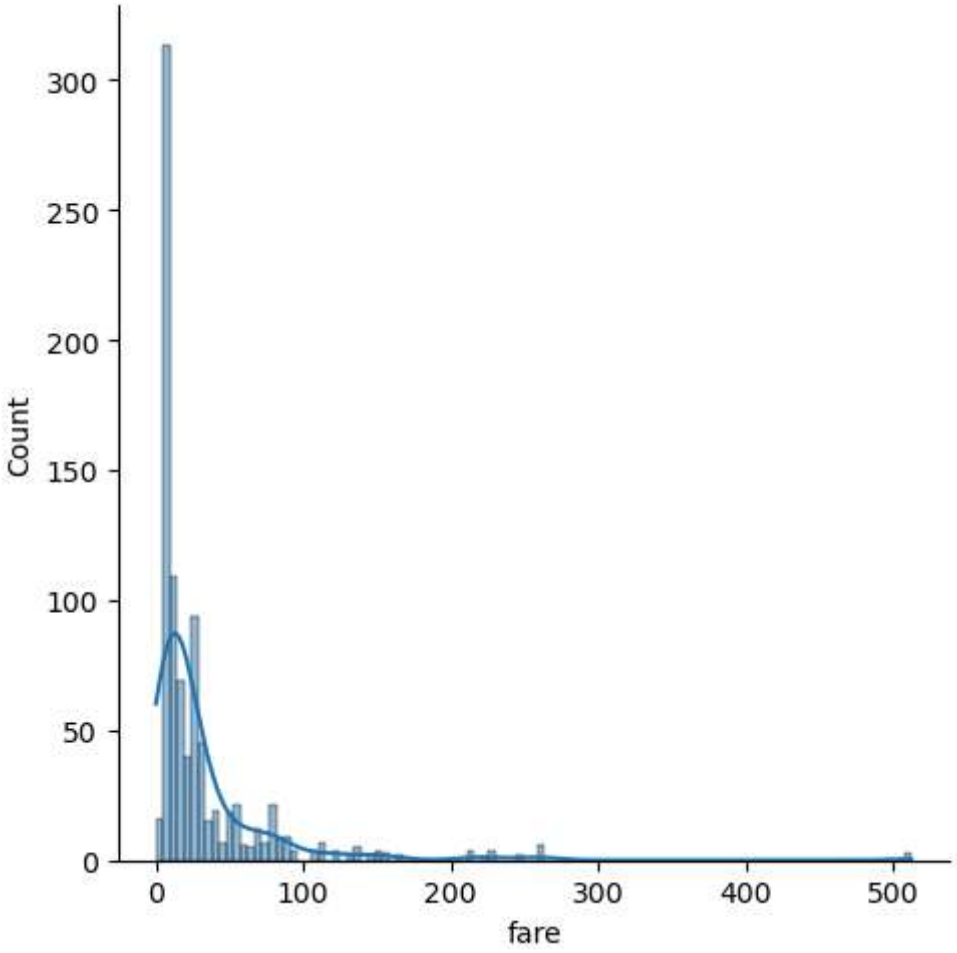
Out[17]:
```
<seaborn.axisgrid.FacetGrid at 0x211589acc50>
```



In [19]:
```
sns.displot(df['fare'],kde=True)
```

```
C:\Users\Vishw\anaconda3\Lib\site-packages\seaborn\axisgrid.py:118: UserWarni
ng: The figure layout has changed to tight
  self._figure.tight_layout(*args, **kwargs)
```

Out[19]:
```
<seaborn.axisgrid.FacetGrid at 0x2115901ad90>
```



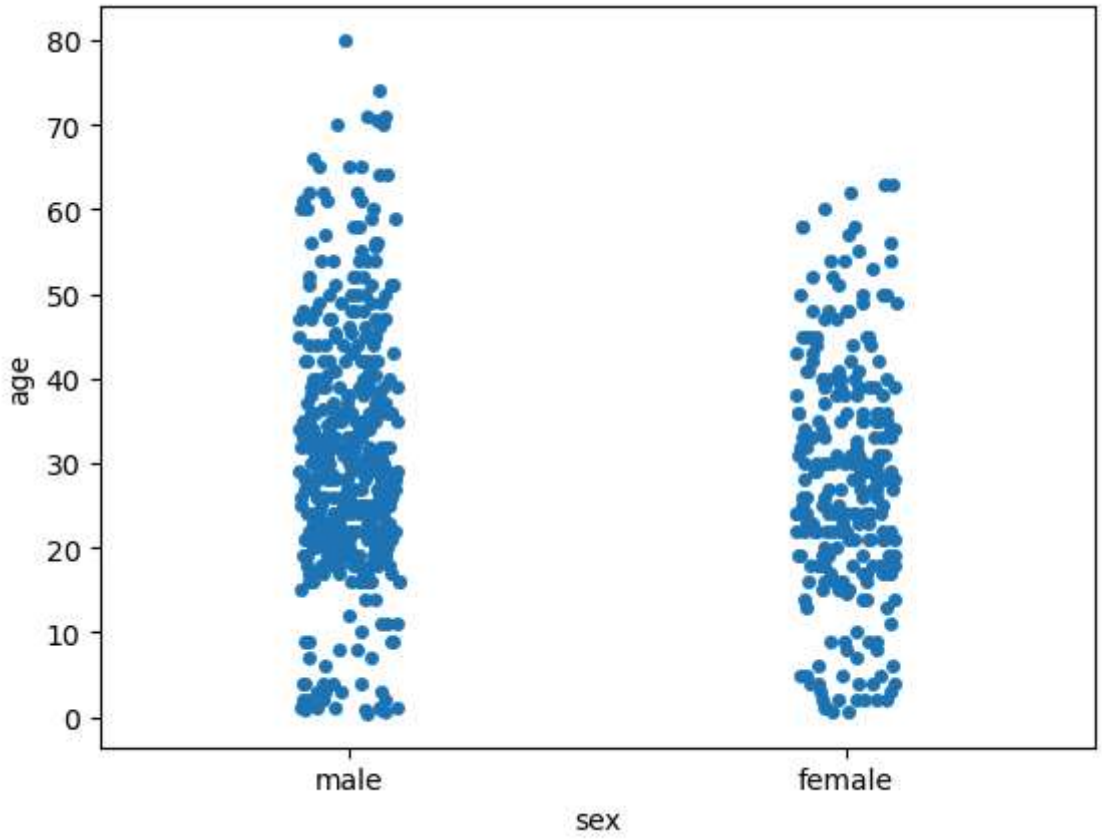
In [2]:
```
import seaborn as sns
```

In [3]:
```
import pandas as pd
import numpy as nm
import matplotlib.pyplot as plt
```

In [4]:
```
df=sns.load_dataset('titanic')
```

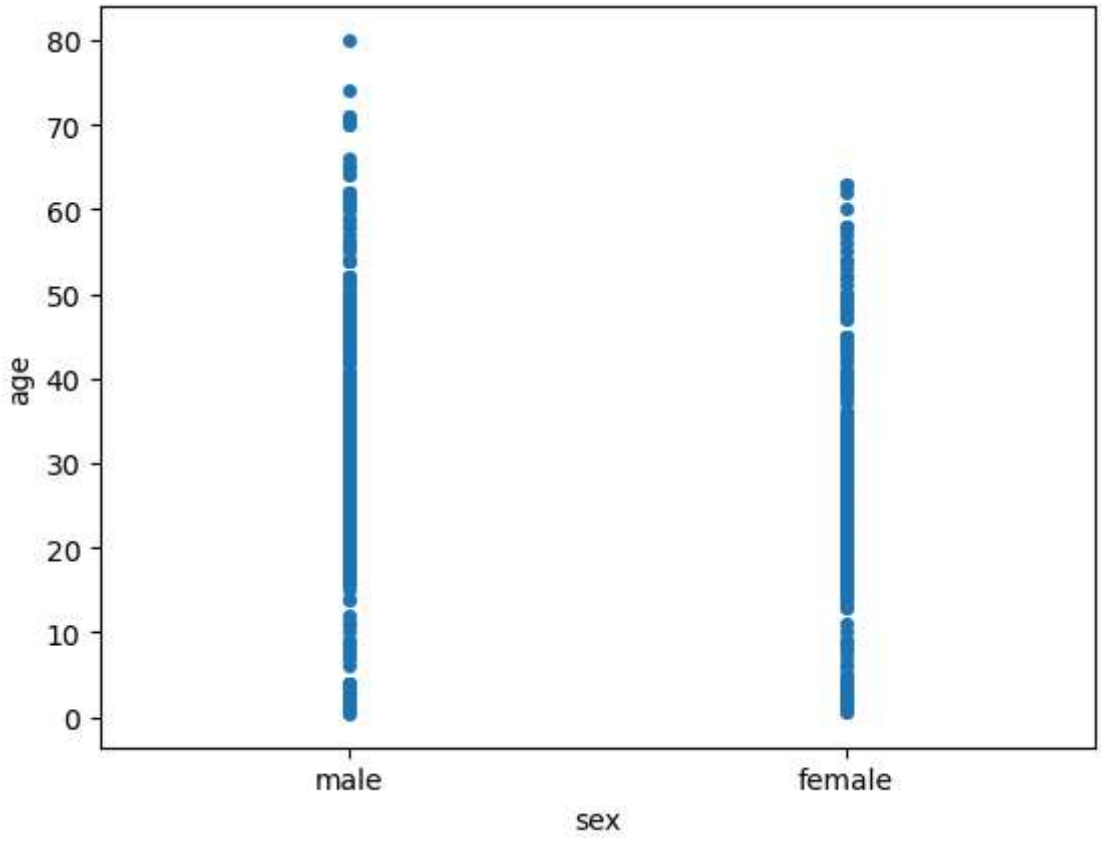
In [5]:
```
sns.stripplot(x='sex', y='age', data=df, jitter=True)
```

Out[5]: <Axes: xlabel='sex', ylabel='age'>



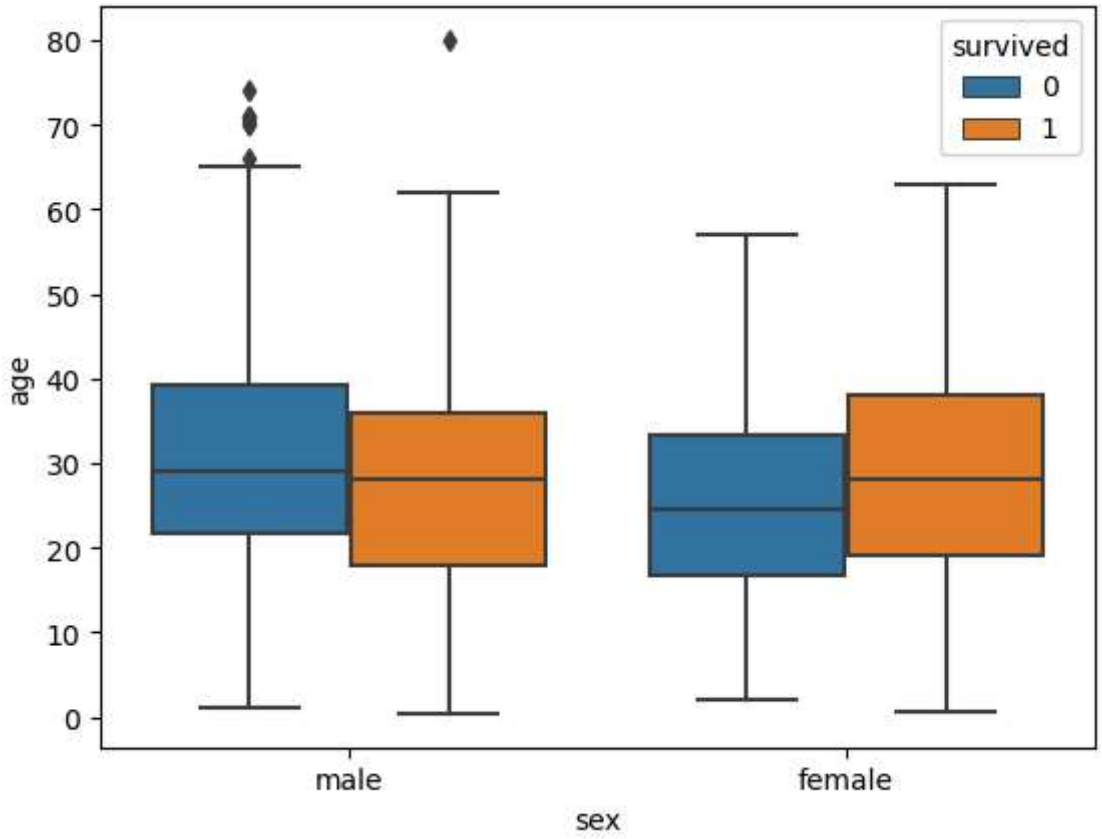
In [6]:
```
sns.stripplot(x='sex', y='age', data=df, jitter=False)
```

Out[6]:
```
<Axes: xlabel='sex', ylabel='age'>
```



In [7]:
```
sns.boxplot(x='sex', y='age', data=df, hue="survived")
```

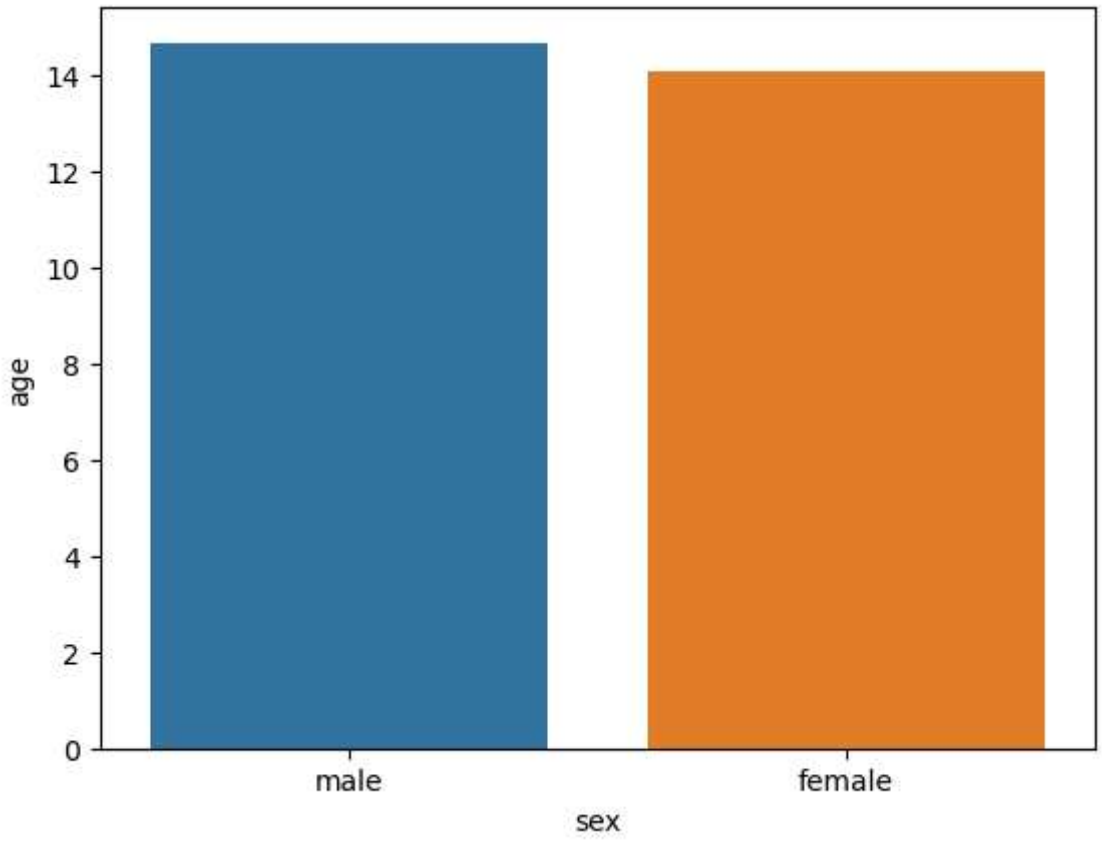
Out[7]:
```
<Axes: xlabel='sex', ylabel='age'>
```



In [8]:
```
sns.barplot(x='sex', y='age', data=df, estimator=nm.std)
```

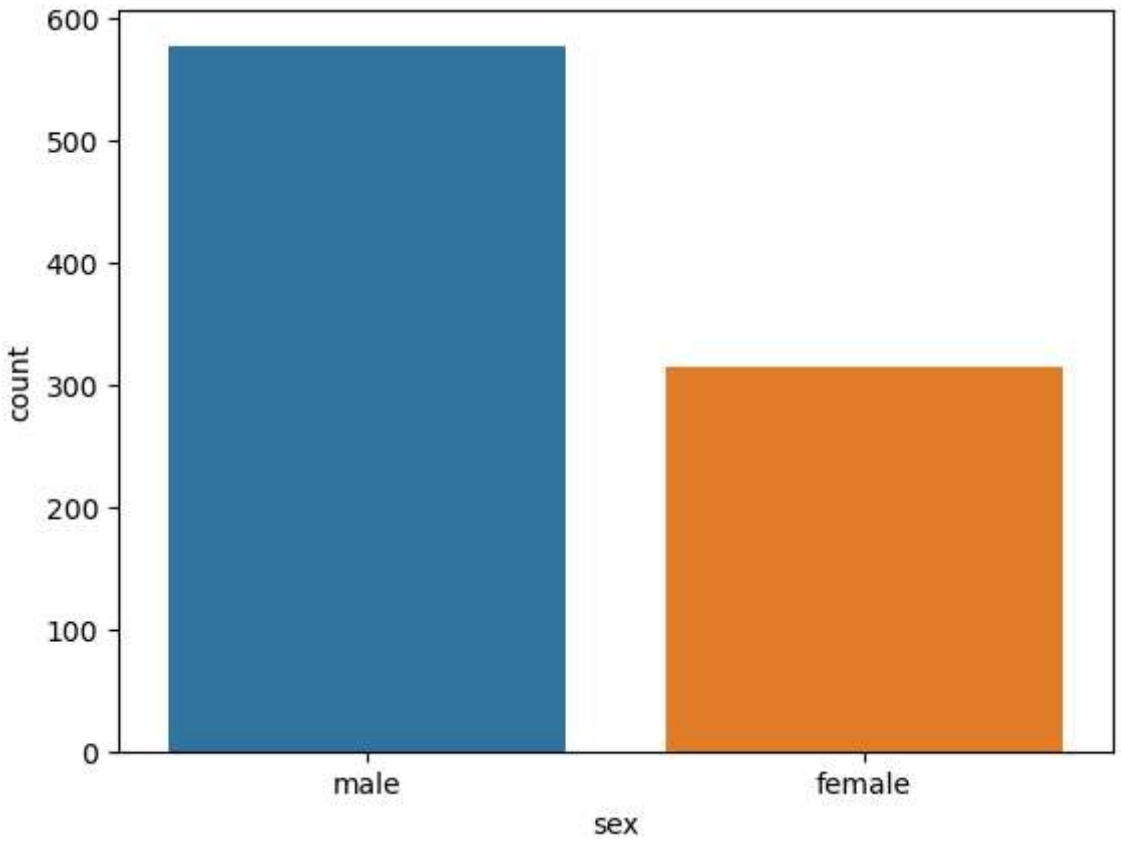
```
C:\Users\Vishw\anaconda3\Lib\site-packages\numpy\lib\nanfunctions.py:1556: Ru
ntimeWarning: All-NaN slice encountered
  return function_base._ureduce(a,
```

Out[8]:
```
<Axes: xlabel='sex', ylabel='age'>
```



In [9]:
```
sns.countplot(x='sex', data=df)
```

Out[9]:
```
<Axes: xlabel='sex', ylabel='count'>
```



In [ ]:
```

```