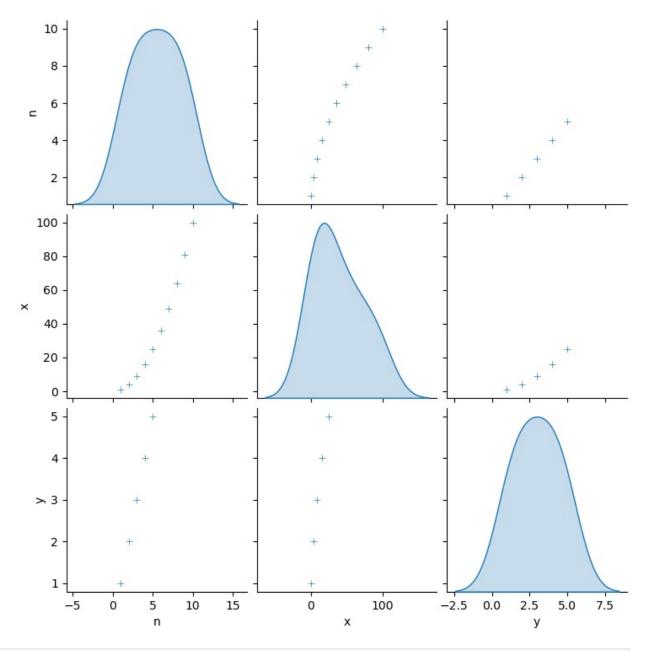
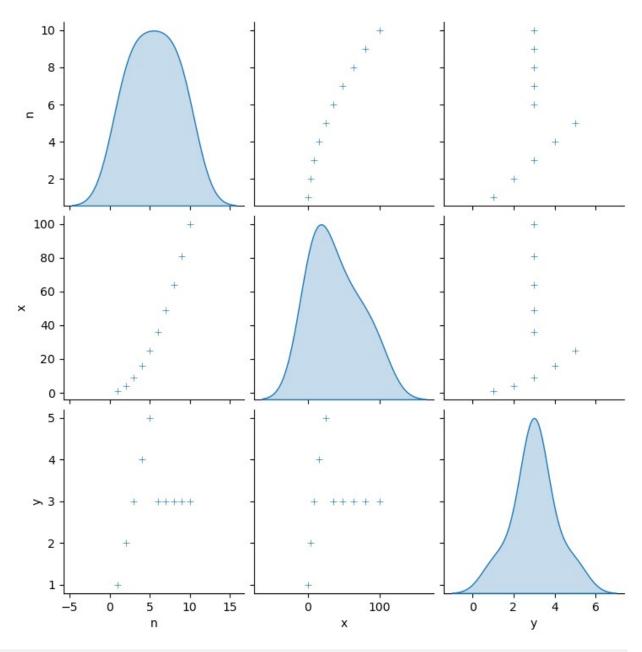
```
import numpy as np
import pandas as pd
import matplotlib.pyplot as plt
import seaborn as sns
df1 = pd.DataFrame()
df1["n"] = np.array([i for i in range(1,11,1)])
df1["x"] = np.array([i**2 for i in range(1,11,1)])
df2 = pd.DataFrame()
df2["n"] = np.array([i for i in range(1,6,1)])
df2["y"] = np.array([i for i in range(1,6,1)])
df1.mean()
n 5.5
    38.5
Х
dtype: float64
df2.mean()
    3.0
    3.0
dtype: float64
K = pd.merge(df1, df2, how = "left", on = ["n"])
K.head(4)
  n x y
  1 1 1.0
0
1 2 4 2.0
     9 3.0
2 3
3 4 16 4.0
K.mean()
   5.5
n
    38.5
Χ
     3.0
dtype: float64
K.y.mean()
3.0
K.info()
<class 'pandas.core.frame.DataFrame'>
Int64Index: 10 entries, 0 to 9
Data columns (total 3 columns):
# Column Non-Null Count Dtype
```

```
0  n   10 non-null   int32
1  x   10 non-null   int32
2  y   5 non-null   float64
dtypes: float64(1), int32(2)
memory usage: 240.0 bytes
sns.pairplot(K, diag_kind = "kde", markers = "+")
plt.show()
```



```
n x y
False False False
0
1
  False False False
 False False False
 False False False
  False False False
5 False False True
6 False False True
7 False False True
8 False False True
9 False False True
K.isna().sum()
    0
n
    0
Χ
    5
dtype: int64
K["y"] = K["y"].fillna(K["y"].mean())
        х у
   n
          1.0
   1
       1
1
   2
       4 2.0
2
   3
       9 3.0
  4 16 4.0
4
   5
          5.0
       25
5
  6 36
          3.0
6
   7
     49
          3.0
7
   8
       64
          3.0
8
   9
      81
          3.0
  10 100 3.0
sns.pairplot(K, diag_kind = "kde", markers = "+")
plt.show()
```



```
sns.distplot(K, kde = True)
<AxesSubplot:ylabel='Density'>
K.info()
<class 'pandas.core.frame.DataFrame'>
Int64Index: 10 entries, 0 to 9
Data columns (total 3 columns):
     Column Non-Null Count
                             Dtype
 0
             10 non-null
                             int32
     n
 1
             10 non-null
                             int32
     Х
```

```
2  y    10 non-null    float64
dtypes: float64(1), int32(2)
memory usage: 540.0 bytes

K.mean()

n     5.5
x     38.5
y     3.0
dtype: float64
```