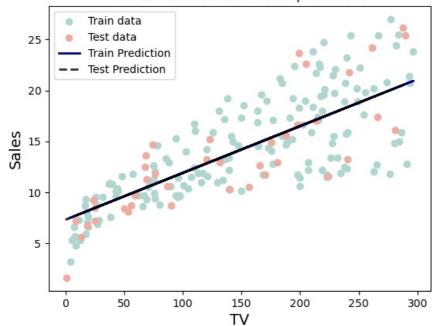
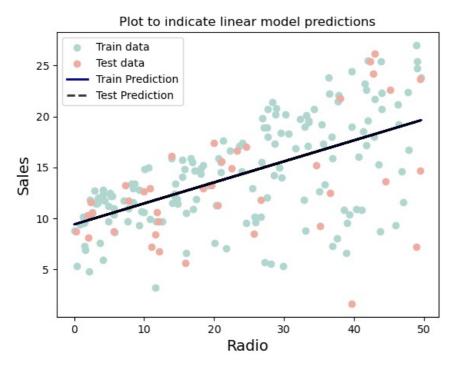
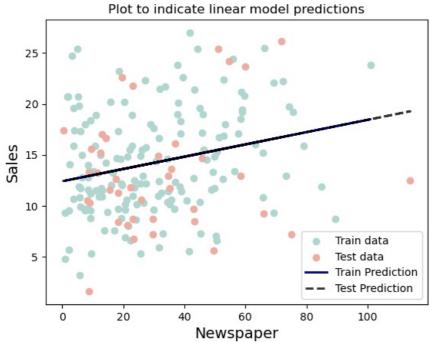
```
In [1]: import numpy as np
           import pandas as pd
           \textbf{import} \ \texttt{matplotlib.pyplot} \ \textbf{as} \ \texttt{plt}
           from helper import fit_and_plot_linear, fit_and_plot_multi
           %matplotlib inline
In [2]: df = pd.read_csv("Advertising.csv")
           df.head()
                 TV Radio Newspaper Sales
Out[2]:
           0 230.1
                       37.8
                                           22.1
                                    69.2
                                           10.4
               44.5
                       39.3
                                    45.1
               17.2
                       45.9
                                    69.3
                                             9.3
           3 151.5
                                    58.5
                       41.3
                                           18.5
           4 180.8
                       10.8
                                    58.4
                                           12.9
In [3]: df_results = pd.DataFrame(
                 [
                      ["TV", "0.5884742462828709", "0.676315157793972"],
["Radio", "(0.35671845263128477", "0.22981692241915952"],
["Newspaper", "0.06441636735498679", "-0.021217489521373478"],
                      ["Sales", "1.0", "1.0"],
                columns=["Predictor", "R2 Train", "R2 Test"],
           fit_and_plot_linear(df[["TV"]])
In [4]:
           fit_and_plot_linear(df[["Radio"]])
           fit_and_plot_linear(df[["Newspaper"]])
fit_and_plot_linear(df[["Sales"]])
```

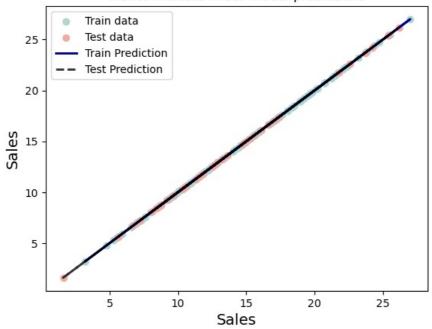
Plot to indicate linear model predictions







Plot to indicate linear model predictions



Out[4]: (1.0, 1.0)

In [5]: fit_and_plot_multi()

Out[5]: (0.9067114990146383, 0.8601145185017868)

In [6]: df_results.head()

Out[6]:		Predictor	R2 Train	R2 Test
	0	TV	0.5884742462828709	0.676315157793972
	1	Radio	(0.35671845263128477	0.22981692241915952
	2	Newspaper	0.06441636735498679	-0.021217489521373478
	3	Sales	1.0	1.0

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