

```
Problem 1
[[12  1  6]
 [ 2  2  6]]
```

```
Problem 2
[[17  8  8]
 [ 6  1 -1]]
```

```
Problem 3
[[11  0  7]
 [-2 -4  6]]
```

```
Problem 4
[[0. 0. 0.]
 [0. 0. 0.]]
```

```
Problem 5
[[-0.71428571]
 [ 0.85714286]]
```

```
Problem 6
4
```

```
Problem 7
3.142857142857143
```

```
Problem 8
[[ 2.86033415  2.93974156  0.42725617  2.65072806  2.36176236  0.75319326]
 [ 2.76051921  2.19733701  0.55381823  1.95966327 -0.39424822  2.20215024]
 [ 7.12182946  5.1933324  8.53857813  5.49477161  3.69951428  7.83098941]
 [ 2.63796509  0.41909095 -0.39105602 -1.04218642  0.34097366  0.59516434]
 [ 5.59443446  2.68610141  6.11696228  9.20823993  7.27906164  2.94632488]
 [ 0.59446289 -1.98764532 -1.46773625  0.97662212  1.29681857  1.5613299 ]
 [ 7.73527683  4.02608943  4.05710146  3.16799093  4.7996913  4.33301793]
 [ 7.32923594  4.24572504  6.19212356  7.42468958  5.4784731  4.8275367 ]
 [ 9.18684651 10.54429235  8.00642064  7.88543677  7.43912479 11.05945441]]
```

```
Problem 9
Drive already mounted at /content/drive; to attempt to forcibly remount, call
drive.mount("/content/drive", force_remount=True).
Dimensions of the DataFrame: (50, 5)
First column:
```

```
0    165349.20
1    162597.70
2    153441.51
3    144372.41
4    142107.34
5    131876.90
6    134615.46
7    130298.13
8    120542.52
9    123334.88
10   101913.08
11   100671.96
12    93863.75
13    91992.39
14   119943.24
15   114523.61
16    78013.11
17    94657.16
18    91749.16
19    86419.70
20    76253.86
```

21	78389.47
22	73994.56
23	67532.53
24	77044.01
25	64664.71
26	75328.87
27	72107.60
28	66051.52
29	65605.48
30	61994.48
31	61136.38
32	63408.86
33	55493.95
34	46426.07
35	46014.02
36	28663.76
37	44069.95
38	20229.59
39	38558.51
40	28754.33
41	27892.92
42	23640.93
43	15505.73
44	22177.74
45	1000.23
46	1315.46
47	0.00
48	542.05
49	0.00

Name: R&D Spend, dtype: float64

First row:

R&D Spend	165349.2
Administration	136897.8
Marketing Spend	471784.1
State	New York
Profit	192261.83

Name: 0, dtype: object