

Fill in the blanks 129s

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Following a trial of a new treatment, you wish to create a plot of the change over the time of the trial (`week`) of the patient response (`resp`). The `patient` data is shown below.

	week	resp
0	0	91
1	1	89
2	2	82
3	3	75
4	4	59
5	5	53

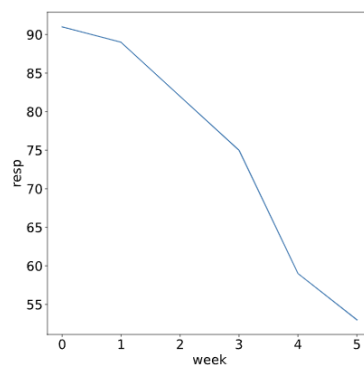
Complete the code to return the output

```
import matplotlib.pyplot as plt
import seaborn as sns

sns. write code here (x = write code here , y = write code here , data = patient)

plt.show()
```

Expected Output



Question: Following a trial of a new treatment, you wish to create a plot of the change over the time of the trial ('week') of the patient response ('resp'). The patient data is shown below.

Answer:

```
import pandas as pd
import matplotlib.pyplot as plt
import seaborn as sns

# Create the DataFrame
data = {
    "week": [0, 1, 2, 3, 4, 5],
    "resp": [91, 89, 82, 75, 59, 53]
```

```
}  
patient = pd.DataFrame(data)  
  
# Plot the data using seaborn  
sns.lineplot(x="week", y="resp", data=patient)  
  
# Display the plot  
plt.show()
```

Explanation:

1. The pandas, matplotlib, and seaborn libraries are imported for data manipulation and visualization.
2. A dictionary 'data' is used to create the DataFrame 'patient' with columns for week and response.
3. The seaborn 'lineplot' function is used to create a line plot, with 'week' as the x-axis and 'resp' as the y-axis.
4. The 'plt.show' function is called to display the plot.