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localhost:8890/notebooks/FirstNotebook.ipynb#

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IP[y]: Notebook FirstNotebook (autosaved)

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Code | Cell Toolbar: None

```
print("Gasoline used = {0:0.1f} gallons (@ {1:0.0f} mpg)"
      .format(gallons, mpg))
print("Cost of gasoline = ${0:0.2f} (@ ${1:0.2f}/gallon)"
      .format(cost, costPerGallon))
```

```
Input distance of trip in miles: 450

Duration of trip = 7.5 hours
Gasoline used = 15.0 gallons (@ 30 mpg)
Cost of gasoline = $61.50 (@ $4.10/gallon)
```

The total distance x traveled during a trip can be obtained by integrating the velocity $v(t)$ over the duration T of the trip:

$$x = \int_0^T v(t)\,dt$$

In [ ]: