

IPython Dashboard x IPy FirstNotebook x

127.0.0.1:8888/aa576a62-e093-43ce-bb67-6f67ed... ABP ☆

Apps Google Maps NYTimes NYU CSMR Journals Web of Science >> Other Bookmarks

IP[y]: Notebook FirstNotebook (autosaved)

File Edit View Insert Cell Kernel Help

⏏ ✂ 📄 📄 ⬆ ⬇ ⬆ ⬇ ▶ ■ Code ▾ Cell Toolbar: None ▾

```
print("Duration of trip = {0:0.1f} hours".format(time))
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 []: