Buffon's Needles

Constants

Prediction of π

Deviation vs. # of Experiments

Regression

```
slope, intercept, r_value, p_value, std_err = stats.linregress(NmohRange, epsilon);
plt.plot(NmohRange, intercept + slope*NmohRange, 'b', label='Fitted line');
```

Plots

```
plt.plot(NmohRange, epsilon, 'r.', label = 'Deviation from $\pi$');
plt.legend();
plt.xlabel(r'$\frac{1}{\sqrt{N}}$');
plt.ylabel(r'$\epsilon$');
plt.show();
```

