PHYS 361: Loops Assignment

Problem 1

The value of pi can be estimated by:

$$\sqrt{6\sum_{1}^{\infty}\frac{1}{n^2}}$$

Write a for loop that determines that expression for n=10000. Compare your results with pi and specify format long.

```
pi_err =
9.549263336960934e-06
```

```
pi_perc_err = abs( pi_err / pi ) * 100
```

```
pi_perc_err =
3.039624925927080e-04
```