In [3]:
```
ns = [100, 200, 500, 1000, 2000, 5000, 10000]
thetas = [0.2, 0.5, 0.8]

for n in ns:
    for theta in thetas:
        k = ((2*(1-theta)*n*n)/(theta*(1+theta)*(1+theta)))**(1/3)
        print("n = {0} and theta = {1}, k/n = {2:.4f}".format(n, theta, k/n))
```

```
n = 100 and theta = 0.2, k/n = 0.3816
n = 100 and theta = 0.5, k/n = 0.2071
n = 100 and theta = 0.8, k/n = 0.1156
n = 200 and theta = 0.2, k/n = 0.3029
n = 200 and theta = 0.5, k/n = 0.1644
n = 200 and theta = 0.8, k/n = 0.0917
n = 500 and theta = 0.2, k/n = 0.2231
n = 500 and theta = 0.5, k/n = 0.1211
n = 500 and theta = 0.8, k/n = 0.0676
n = 1000 and theta = 0.2, k/n = 0.1771
n = 1000 and theta = 0.5, k/n = 0.0961
n = 1000 and theta = 0.8, k/n = 0.0536
n = 2000 and theta = 0.2, k/n = 0.1406
n = 2000 and theta = 0.5, k/n = 0.0763
n = 2000 and theta = 0.8, k/n = 0.0426
n = 5000 and theta = 0.2, k/n = 0.1036
n = 5000 and theta = 0.5, k/n = 0.0562
n = 5000 and theta = 0.8, k/n = 0.0314
n = 10000 and theta = 0.2, k/n = 0.0822
n = 10000 and theta = 0.5, k/n = 0.0446
n = 10000 and theta = 0.8, k/n = 0.0249
```

In [ ]: