```
> 
> rada:=n->1/(n^2 + n+1);
```

$$rada := n \rightarrow \frac{1}{n^2 + n + 1}$$

```
> 
> integral:=simplify(int(rada(i), i=1..n));
```

$$integral := -\frac{2}{9}\sqrt{3}\left(\pi - 3\arctan\left(\frac{(2n+1)\sqrt{3}}{3}\right)\right)$$

```
> limit(integral, n=infinity);
```

$$\frac{\pi\sqrt{3}}{9}$$

```
> int(rada(i),i=1..infinity);
```

$$\frac{\pi\sqrt{3}}{9}$$

```
> evalf(sum(rada(i),i=1..1000));
```

$$0.7971482799 + 0.\,I$$

```
> evalf(sum(rada(i),i=1..2000));
```

$$0.7976475305 + 0.\,I$$

```
> evalf(sum(rada(i),i=1..3000));
```

$$0.7978140584 + 0.\,I$$

```
> evalf(sum(rada(i),i=1..infinity));
```

$$0.798147281$$

```
> 
> 
> 
> Credit:= "I&C, p. 121" ;
```

$$Credit := \text{"I\&C, p. 121"}$$

```
> 
```