
Integration using trapezoidal rule

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```
function I = trapz_r(f, a, b, N)
```

```
h = (b-a)/N;  
I = f(a)+f(b);
```

```
for i = 1:N-1
```

```
    I = I+2*f(i*h);
```

```
end
```

```
I = (b-a)*I/(2*N);
```

```
end
```

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