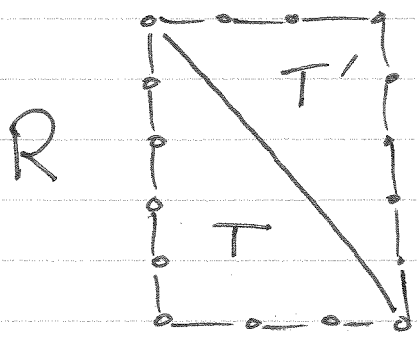


right triangle oriented with grid



$$i(T) = i(T')$$

$$o(T) = o(T')$$

area of rectangle

$$= i(R) + \frac{1}{2} o(R) - 1$$

$$= 2 \left( i(T) + \frac{1}{2} o(T) - 1 \right)$$

So

$$i(T) + \frac{1}{2} o(T) - 1 = \frac{1}{2} \text{ area of rectangle}$$

$$= \text{area of } T$$