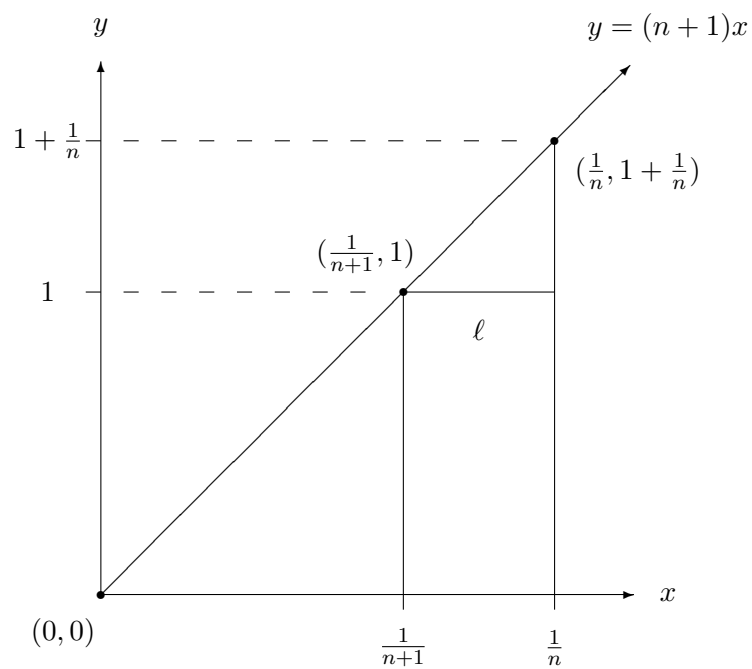


Proof Without Words: A Partial Fraction Decomposition*

Steven J. Kifowit, Prairie State College



$$\ell = \frac{1}{n} - \frac{1}{n+1} \quad \text{and} \quad \frac{\frac{1}{n+1}}{1} = \frac{\ell}{\frac{1}{n}}$$

\Downarrow

$$\frac{1}{n} - \frac{1}{n+1} = \frac{1}{n} \left(\frac{1}{n+1} \right)$$

*Appears in *The College Mathematics Journal*, Vol. 36, No. 2, March 2005, p. 122