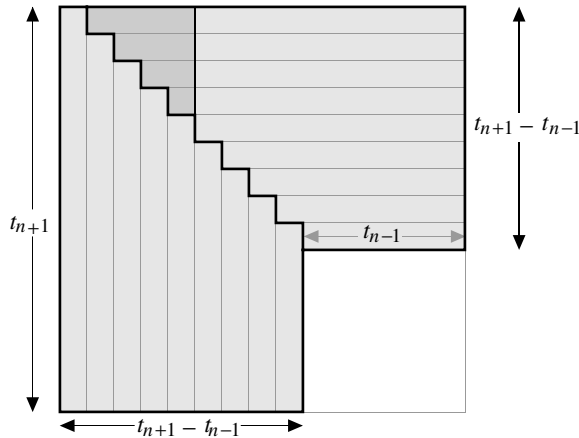
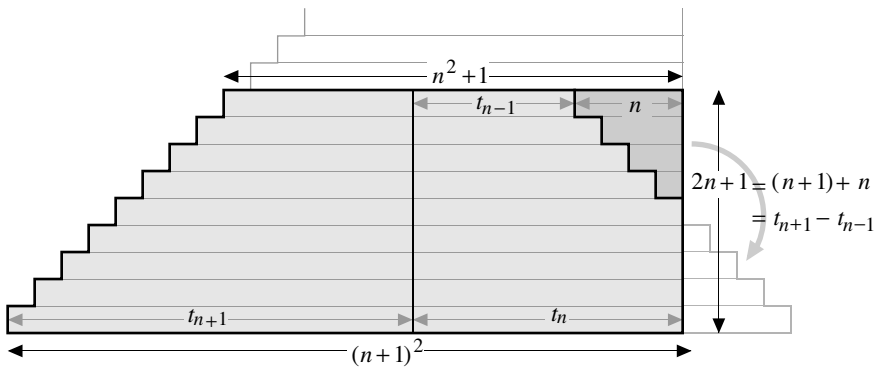


# Proof Without Words: A Triangular Identity

$$\begin{aligned}
 2 + 3 + 4 &= 9 = 3^2 - 0^2 \\
 5 + 6 + 7 + 8 + 9 &= 35 = 6^2 - 1^2 \\
 10 + 11 + 12 + 13 + 14 + 15 + 16 &= 91 = 10^2 - 3^2 \\
 &\vdots \\
 t_n = 1 + 2 + \dots + n &\Rightarrow t_{(n+1)^2} - t_n^2 = t_{n+1}^2 - t_{n-1}^2
 \end{aligned}$$



—ROGER B. NELSEN  
 LEWIS & CLARK COLLEGE  
 PORTLAND OR 97219