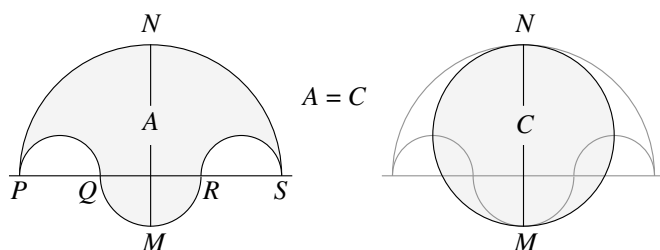


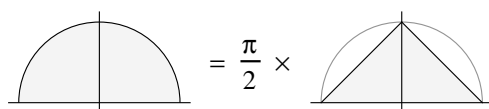
# Proof Without Words: The Area of a Salinon

**THEOREM.** Let  $P, Q, R, S$  be four points on a line (in that order) such that  $PQ = RS$ . Semicircles are drawn above the line with diameters  $PQ, RS$ , and  $PS$ , and another semicircle with diameter  $QR$  is drawn below the line. A *salinon* is the figure bounded by these four semicircles. Let the axis of symmetry of the salinon intersect its boundary at  $M$  and  $N$ . Then the area  $A$  of the salinon equals the area  $C$  of the circle with diameter  $MN$  [Archimedes, *Liber Assumptorum*, Proposition 14].

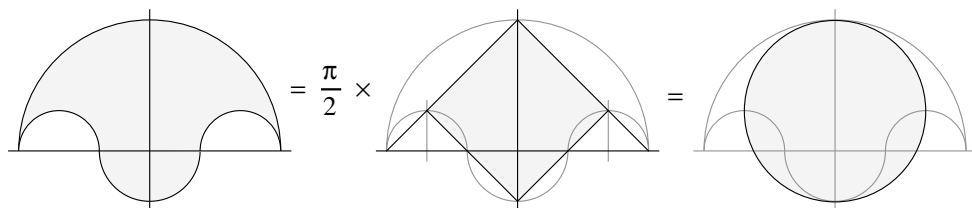


*Proof.*

I.



II.



—ROGER B. NELSEN  
LEWIS & CLARK COLLEGE