## GROUP WORK 4, SECTION 2.5

## Swimming to the Shore

A swimmer crosses a river starting at point $A$ and ending at point $B$, following the path shown below. Prove that for some value $x$, the swimmer's distance $d\left(P_{x}, A\right)$ from $A$ is the same as the distance $d\left(P_{x}, B\right)$ from $B$.


