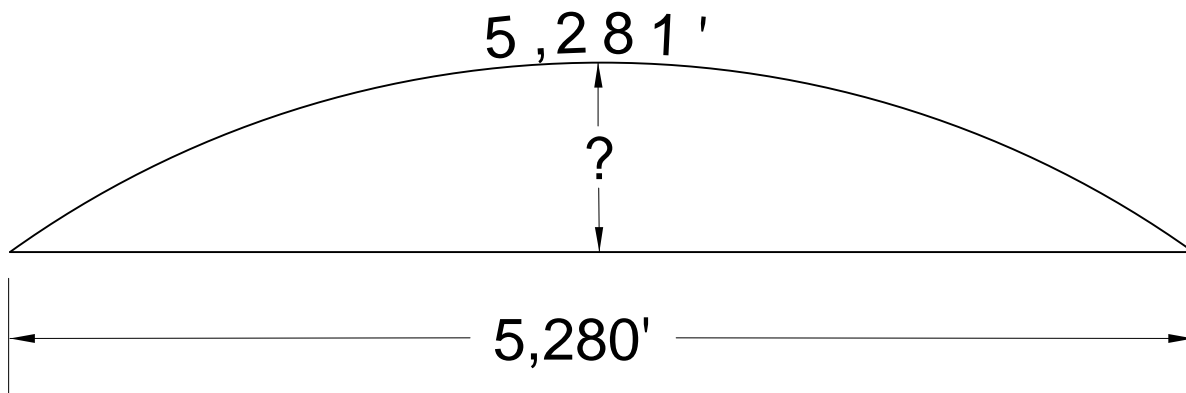


PROBLEM NO. 71



ONE VERY HOT DAY A ONE MILE LONG LENGTH OF RAILROAD TRACK ON A LEVEL SURFACE EXPANDED EXACTLY ONE FOOT. IF IT ROSE VERTICALLY ONLY AND IN A CIRCULAR ARC AND THE TWO ENDS STAYED IN THEIR ORIGINAL POSITIONS, HOW HIGH WOULD THE MIDDLE BE?