

Due Friday March 30th

There is a geometry theorem that states:

The median of a trapezoid is parallel to the bases and equal to one-half their sum.

Problem: In the accompanying figure, \overline{MN} is a median of trapezoid $ABCD$. If the area of trapezoid $ABCD$ is 272 in^2 ,

- find x ,
- find the height of trapezoid $ABCD$,
- and find the length of the median.

(A response with little or no work shown will receive NO credit)

