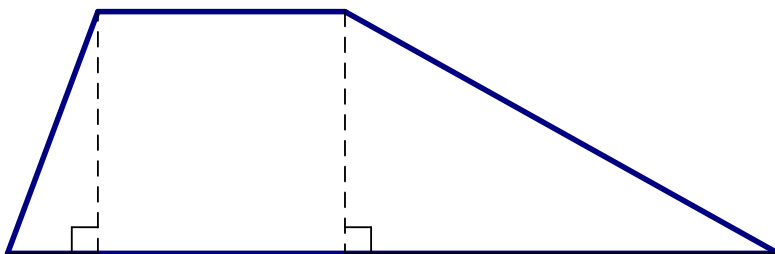


Area of Trapezoids

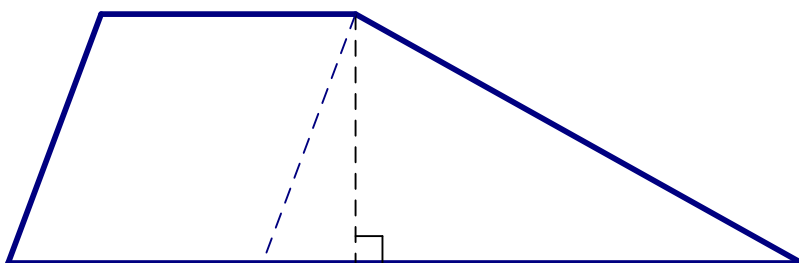
This activity presumes knowledge and understanding of how to find the area of rectangles, triangles, and parallelograms.

In each of the following figures, segments that appear parallel are parallel. In each case, let the height of the trapezoid be h , let the shorter base be a , and let the longer base be b . Choose two trapezoids, different from your neighbors', and find their area in terms of these variables. Simplify as much as possible, so as to be able to compare answers. Name any other lengths in the diagrams however you would like, but attempt to give your final answer in terms of a , b , and h .

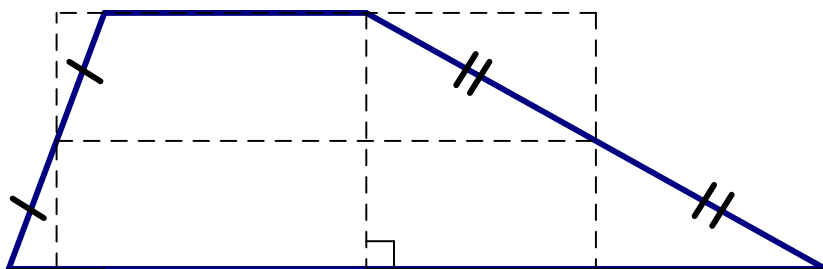
1.



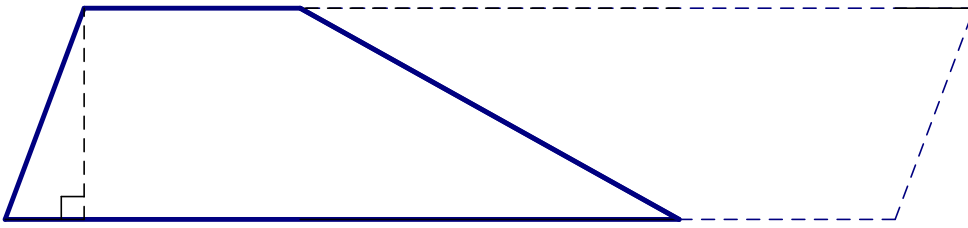
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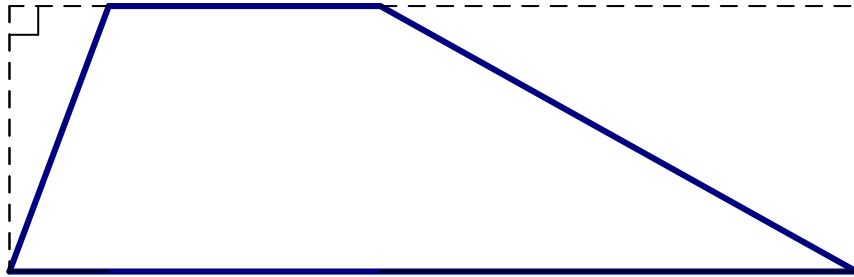
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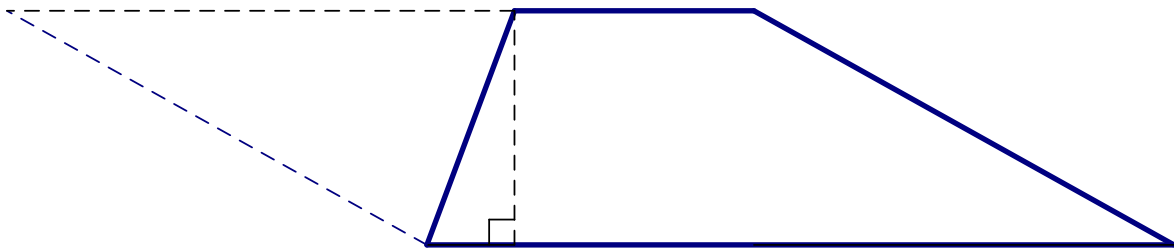
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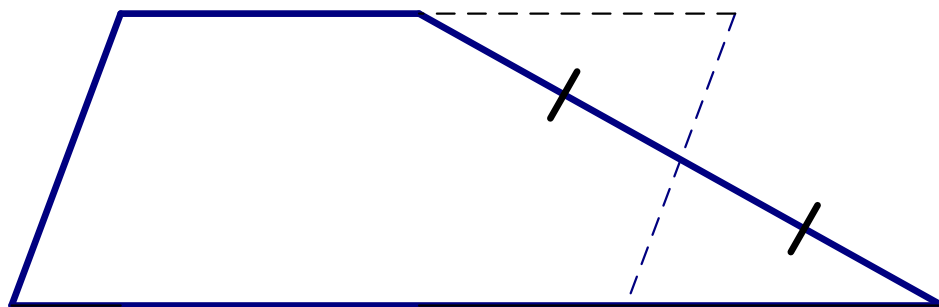
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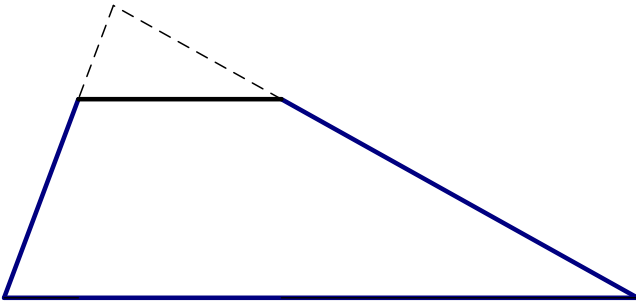
6.



7.



8.



9.

