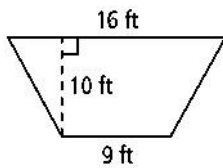


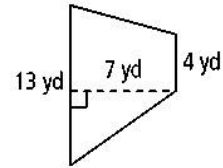
10-2 Areas of Trapezoids, Rhombuses, and Kites

Find the area of each trapezoid.

1.

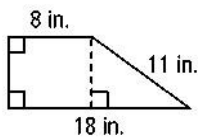


2.

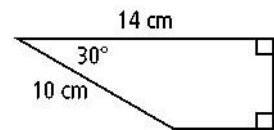


Find the area of each trapezoid. If your answer is not an integer, leave it in simplest radical form.

3.

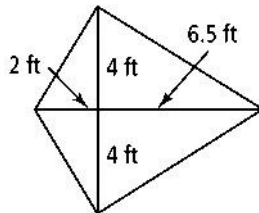


4.

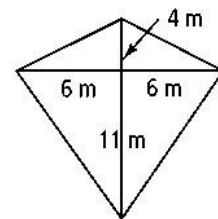


Find the area of each kite.

5.



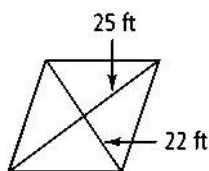
6.



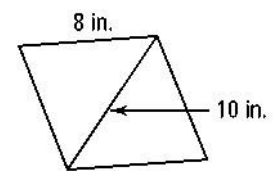
7. Find the area of a kite with diagonals 12 ft and 3 ft.

Find the area of each rhombus.

8.



9.



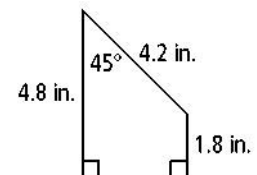
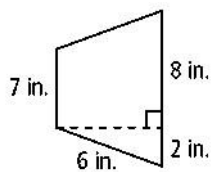
10. Find the area of a rhombus with diagonals 4.5 in. and 5.2 in

11. A trapezoid has two right angles, 16 in. and 20 in. bases, and 5 in. height. Sketch the trapezoid and find its perimeter and area.

Find the area of each trapezoid to the nearest tenth.

13.

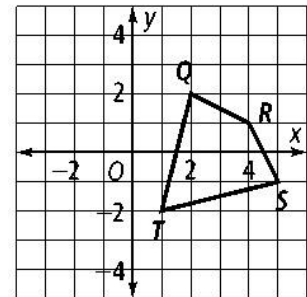
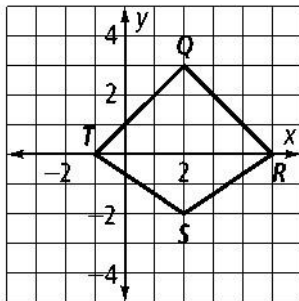
12.



Coordinate Geometry Find the area of quadrilateral $QRST$.

15.

14.



16. One diagonal of a rhombus is 5 less than twice the other diagonal. The area is 75 cm^2 . Find the length of each diagonal.