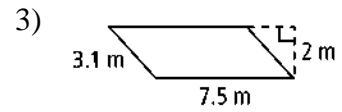
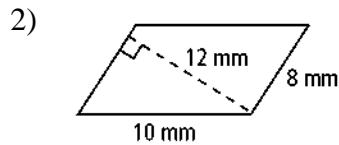
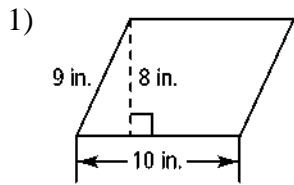
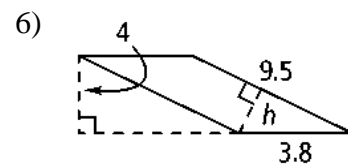
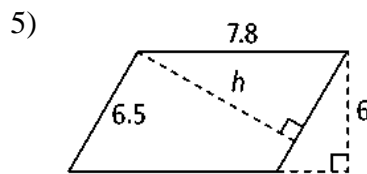
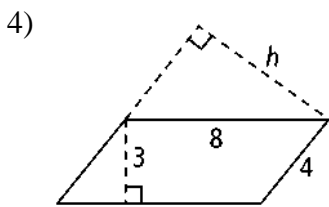


# **10.1 & 10.2 – Areas of Triangles, Parallelograms, Trapezoids, Rhombi, & Kites**

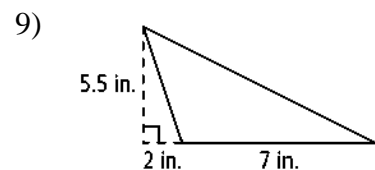
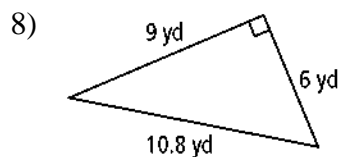
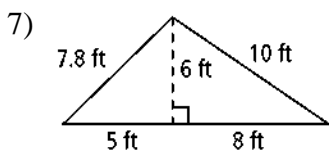
Find the area of each parallelogram. Show necessary work.



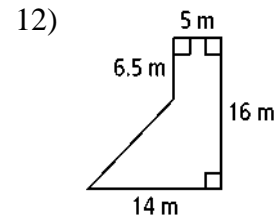
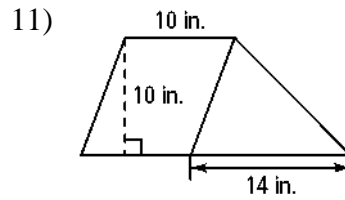
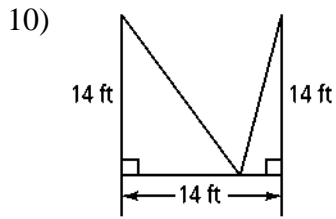
Find the value of  $h$  for each parallelogram. Show necessary work.



Find the area of each triangle. Show necessary work.



Find the area of each figure.

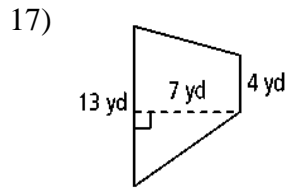
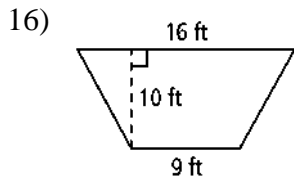


- 13) In a parallelogram, a base,  $b$ , and its corresponding height,  $h$ , are in the ratio of 5 : 3. The area is  $135 \text{ mm}^2$ . Find  $b$  and  $h$ .

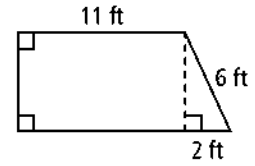
- 14) A triangle has an area of  $18 \text{ ft}^2$ . List all the possible positive integers that could represent its base and height.

- 15) A parallelogram has a height of 6 units and a corresponding base of 7 units. What is the area of each triangle formed when one diagonal of the parallelogram is drawn? What is the area of each small triangle formed when two diagonals are drawn?

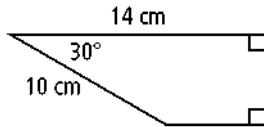
Find the area of each trapezoid. Show necessary work.



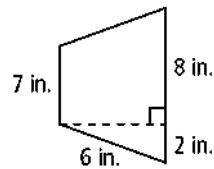
18) Leave your answers in simplest radical form.



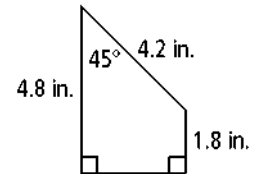
19) Leave your answers in simplest radical form.



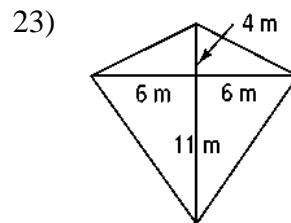
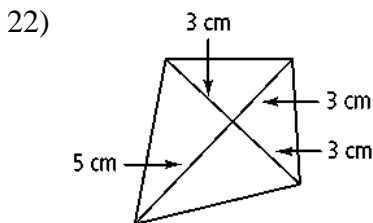
20) Round to the nearest tenth.



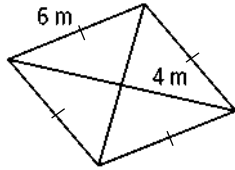
21) Round to the nearest tenth.



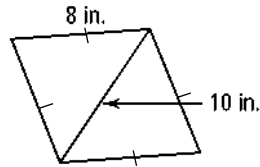
Find the area of each kite or rhombus.



24)

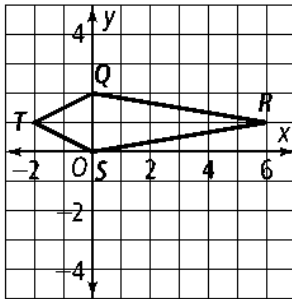


25)

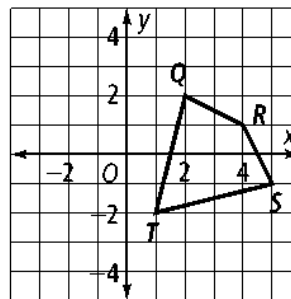


Find the area of each quadrilateral  $QRST$ .

26)



27)



28) One diagonal of a rhombus is 5 less than twice the other diagonal. The area is  $75 \text{ cm}^2$ . Find the length of each diagonal.

29) Find the area of the rhombus. Leave your answers in simplest radical form.

