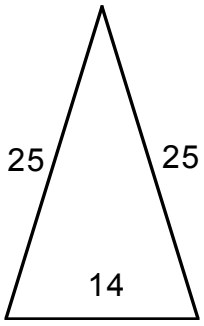
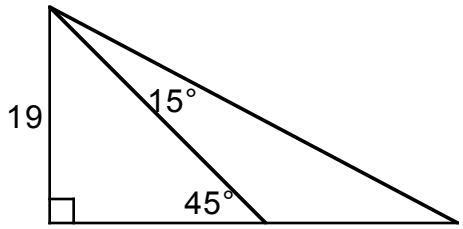
Honors Geometry **REVIEW** **Name**_____

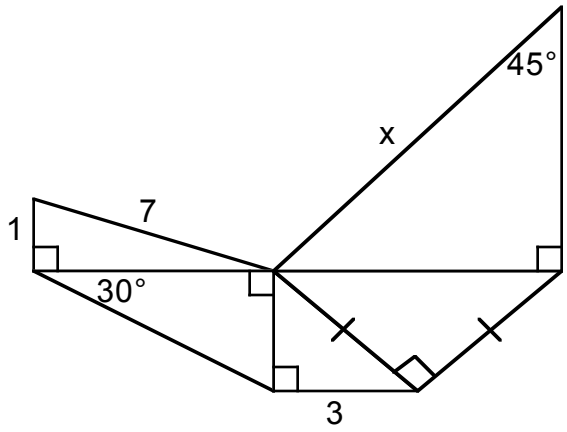
1. In the triangle below
   a. Find the area using the pythagorean theorem.
   b. Find the measure of one of the base angles.



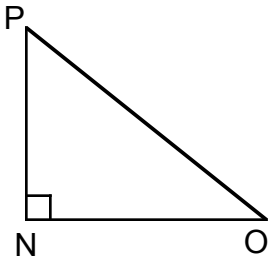
2. Find the *exact* area of the obtuse triangle in the diagram below.



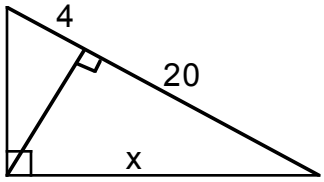
3. Find the *exact* value of *x*.



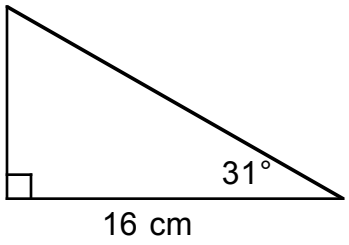
4. In right triangle ΔNOP, NO is 2 units longer than NP, and OP is 3 units longer than NO . Find the length of the hypotenuse to the nearest hundredth. *(Use the quadratic formula).*



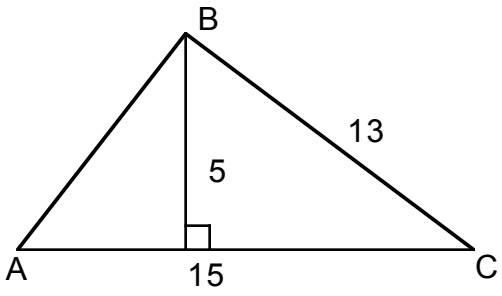
5. Find the value of *x* in simplified radical form:



6. In the triangle below find:
   a. the area
   b. the perimeter (both to nearest hundredth).



7. Is ΔABC acute, right, or obtuse?



8. ON A SEPAREATE PIECE OF PAPER construct an isosceles right triangle with the same area as the right triangle below.