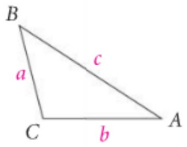
Theorem 8-3

If the square of the length of the longest side of a triangle is greater than the sum of the squares of the lengths of the other two sides, the triangle is obtuse.

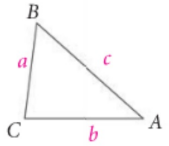
If $c^2 > a^2 + b^2$, the triangle is obtuse.



Theorem 8-4

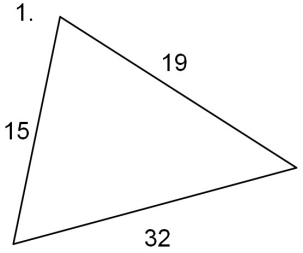
If the square of the length of the longest side of a triangle is less than the sum of the squares of the lengths of the other two sides, the triangle is acute.

If $c^2 < a^2 + b^2$, the triangle is acute.



For 1 to 4 tell if each triangle is Right, Acute, or Obtuse.

1.



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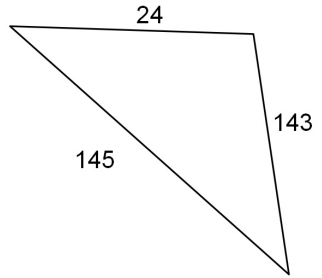

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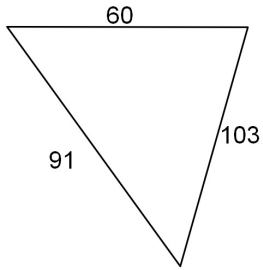
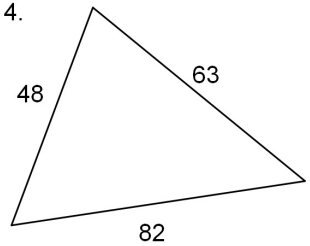
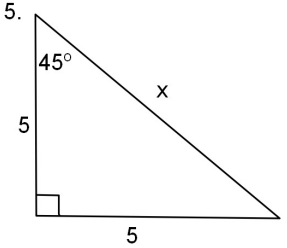


4.



Find the length of each side labeled x. Give answer in simplified radical form.

5.



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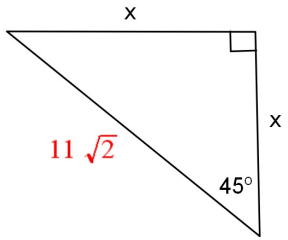

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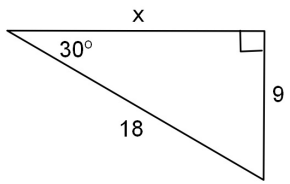
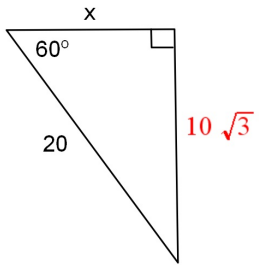


8.



9.