

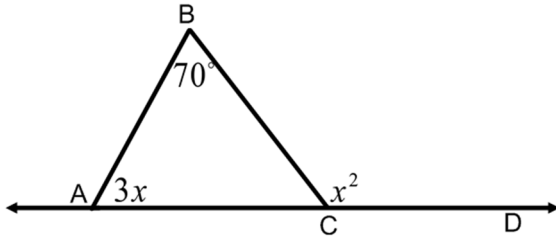
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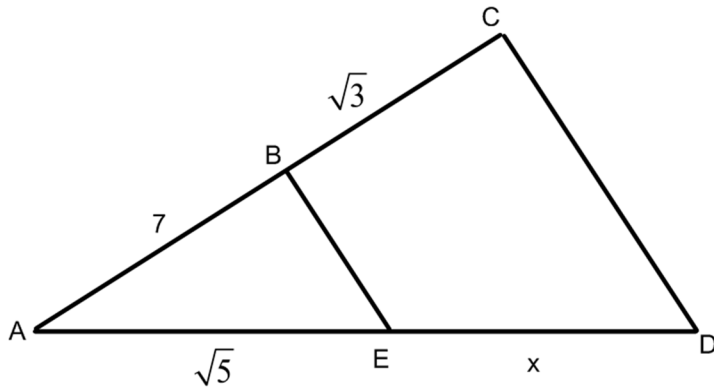
**Geometry**

**Exam Review Extension**

1. Find the value of  $x$  and the measure of  $\angle A$  and  $\angle BCD$ .



2. Find the value of  $x$ . Leave in simplest radical form. Assume that  $\overline{CD} \parallel \overline{BE}$ .

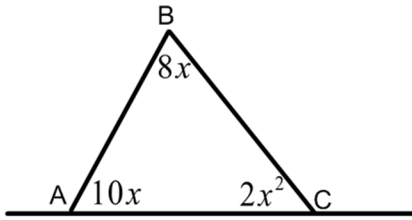


3.  $\overline{AD}$  is 24 inches long. B is between A and D, and C is between B and D.  $AB = CD$  and BC is equal to the square of AB. Draw and label a picture. Find the length of each segment.

4. Find the geometric mean of 12 and 30.

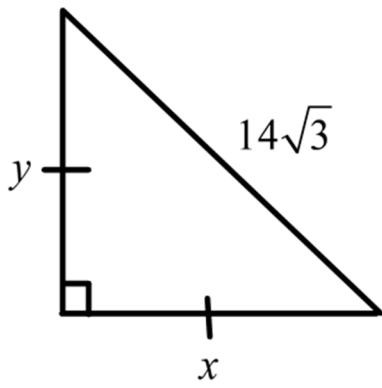
5. Given lengths of 10,  $5\sqrt{6}$  and 7, determine whether the lengths can form a triangle. If they can, determine whether the triangle is right, obtuse or acute.

6. Find the value of  $x$  and the angle measures of the triangle below.

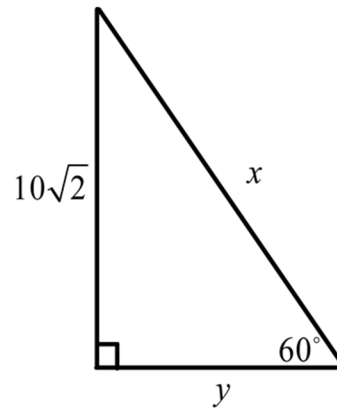


Find the value of  $x$  and  $y$  in each of the figures below.

7.



8.



9. Given that the measure of  $\angle ABC = 2x$  and the measure of  $\angle CBD$  is the square of angle  $ABC$ , find the measure of each of the angles if the measure of  $\angle ABD = 30^\circ$ .

