Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Segment Addition Postulate and Pythagorean Theorem Worksheet

1. Write out the segment addition postulate for the following diagram:

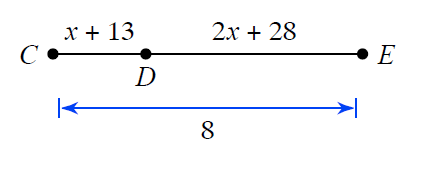
C

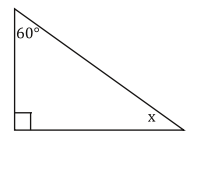
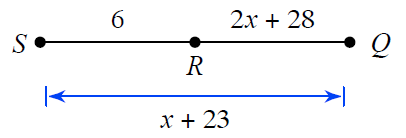
A

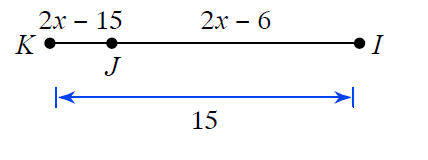
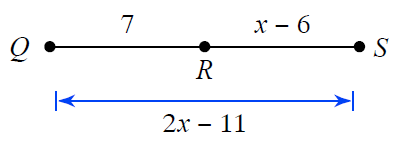
T

1. If AB = 27 and BC = 13, find the length of AC. 3. If TD = 32 and YD = 51, find YT

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For the following problems solve for the value of *x*. Then use x to find the measures of all three line segments.

4. 5.



6. 7.

GET WORKSHEET FROM LET’s PRACTICE GEOMETRY

<http://www.letspracticegeometry.com/wp-content/uploads/2011/11/pythagorean-theorem.pdf>