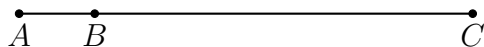


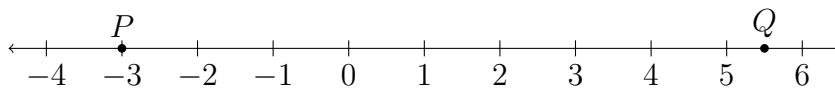
1-7Exam-spicy

1. Given \overline{ABC} , $AB = 4$, and $AC = 25$.

Find BC .

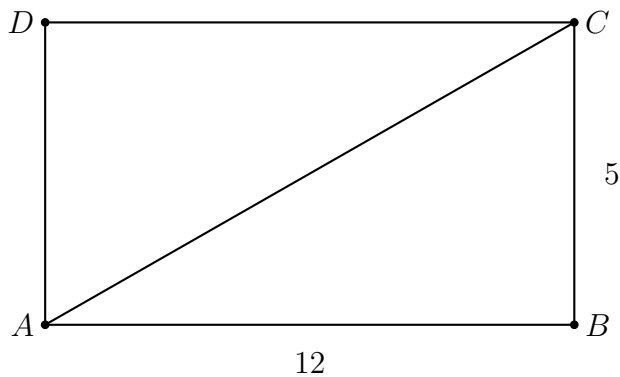


2. Given \overleftrightarrow{PQ} as shown on the number line, with $P = -3$ and $Q = 5.5$.

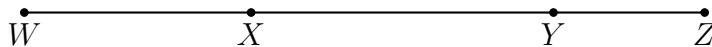


What is the exact distance on the number line between the points P and Q ?

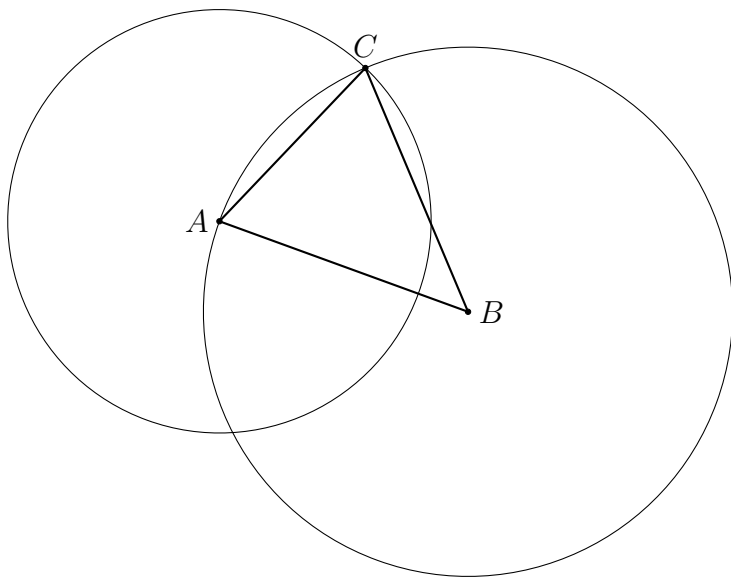
3. Given the rectangle $ABCD$ shown below, with $AB = 12$ and $BC = 5$. The diagonal \overline{AC} is drawn to create two triangles. Find the area of the lower triangle, $\triangle ABC$.



4. Given \overline{WXYZ} , $WX = 3\frac{1}{2}$, $XY = 4\frac{3}{4}$, and $YZ = 1\frac{1}{4}$.
Find WZ .



5. A student constructs a triangle with a given side, \overline{AB} as shown below. Is $\triangle ABC$ equilateral? Justify your answer by explaining what was done incorrectly and how it should have been done.



6. In the following two problems, solve for the value of x by factoring.

(a) $x^2 + 6x = -5$

(b) $x^2 = x + 12$