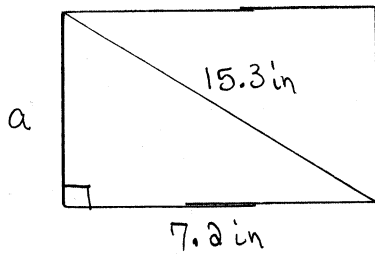


Math 096 - Quiz 7
April 5, 2017

Name key _____
Score _____

Show all work to receive full credit. Supply explanations when necessary.

1. (2.5 points) A rectangle is 7.2 in long and has a diagonal that measures 15.3 in. Find the width of the rectangle.

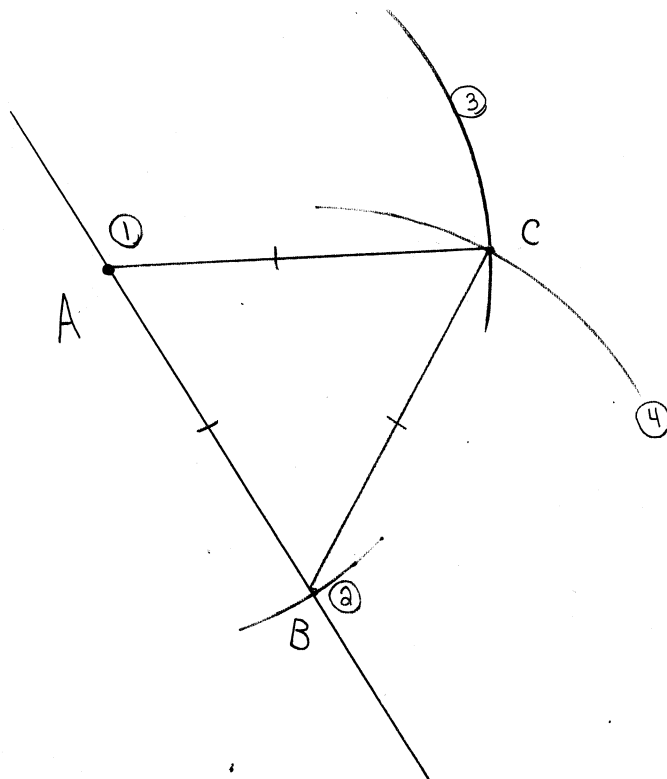


$$a^2 + (7.2)^2 = (15.3)^2$$

$$a^2 = 234.09 - 51.84 = 182.25$$

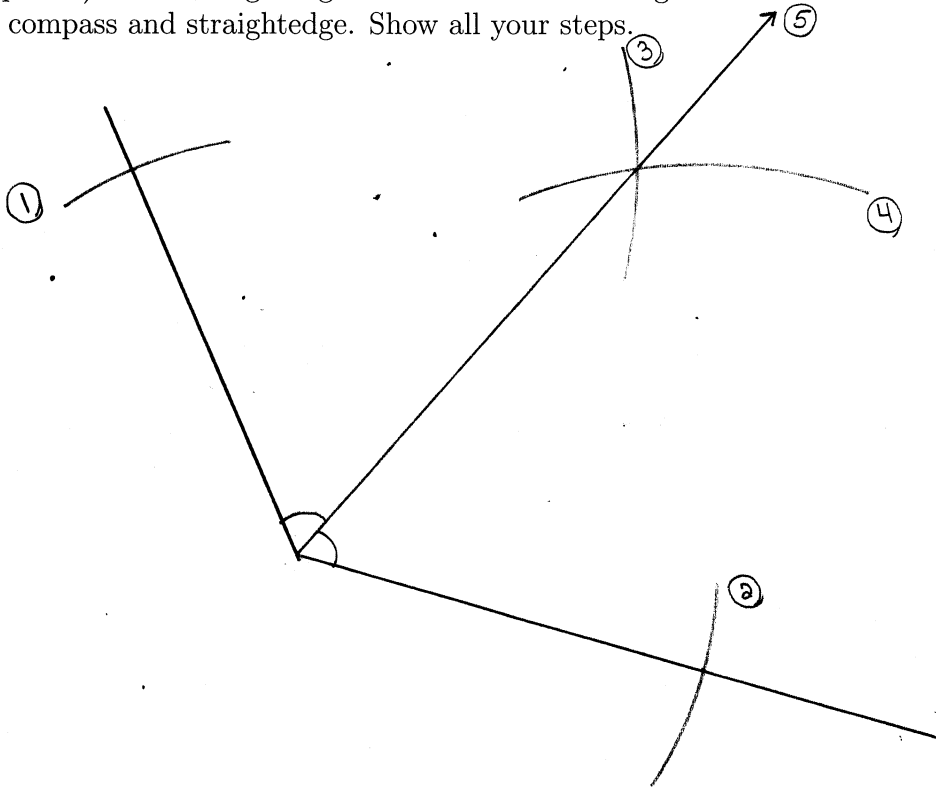
$$a = 13.5 \text{ in}$$

2. (2.5 points) Use the SSS construction with only compass and straightedge to construct an equilateral triangle. Show all your steps.



$\triangle ABC$ IS
EQUILATERAL.

3. (2.5 points) Use a straightedge to sketch an obtuse angle. Then bisect the angle using only compass and straightedge. Show all your steps.



4. (2.5 points) Use a straightedge to sketch a line segment. Then bisect the segment using only compass and straightedge. Show all your steps.

