BECA / Dr. Huson / Geometry 02-Midpoint+distance   Name:
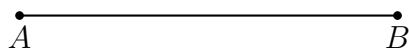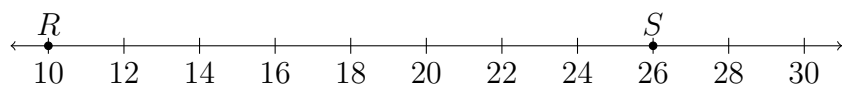pset ID: 27

2-7DNRQ-Segments+area

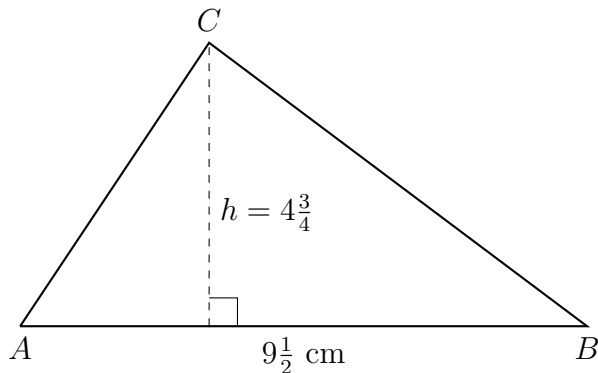1. Complete the construction of an equilateral triangle with one side as $\overline{AB}$.

A _____ B

2. Given $\overleftrightarrow{RS}$ as shown on the number line.

R S

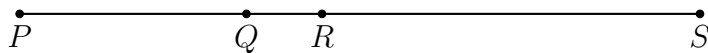10   12   14   16   18   20   22   24   26   28   30

Mark and label the point M that bisects $\overline{RS}$.

3. Find the area of $\triangle ABC$. The altitude h of the triangle is $4\frac{3}{4}$ centimeters and the base $AB = 9\frac{1}{2}$ cm. (diagram not to scale)

C

$h = 4\frac{3}{4}$

A

$9\frac{1}{2}$ cm

B

4. Given $\overline{PQRS}$, $PQ = 3\frac{1}{4}$, $QR = 1\frac{1}{4}$, and $RS = 5\frac{1}{2}$. (diagram not to scale)

Find PS.

$P \qquad Q \quad R \qquad\qquad\qquad S$

5. Given that M is the midpoint of $\overline{AB}$. $AM = 7x + 4$, $BM = 5x + 8$. Find AB.
Complete all the steps for full credit (including a fully-labeled drawing and the check)