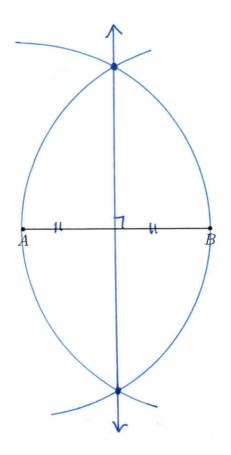
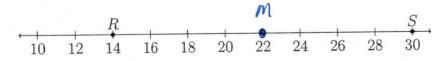
2.5 Pop Quiz: Segment & Area Calculations

1. Complete the construction of a perpendicular bisector of \overline{AB} .



3

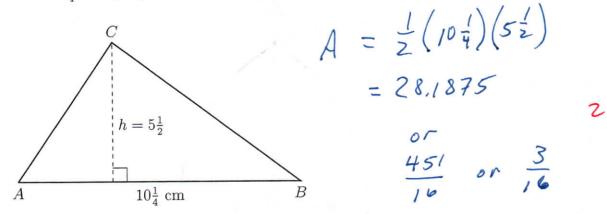
2. Given \overrightarrow{RS} as shown on the number line.



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

$$m = 14 + \frac{30 - 14}{2}$$
= 22

3. Find the area of $\triangle ABC$. The altitude h of the triangle is $5\frac{1}{2}$ centimeters and the base $AB=10\frac{1}{4}$ cm. (diagram not to scale)



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

5. Given that M is the midpoint of \overline{AB} . AM = 5x - 4, BM = 3x + 10. Find AB. Complete all the steps for full credit (including a fully-labeled drawing and the check)