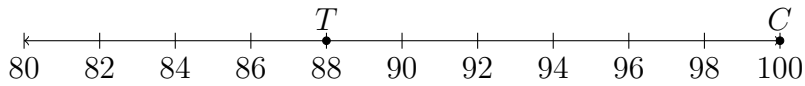


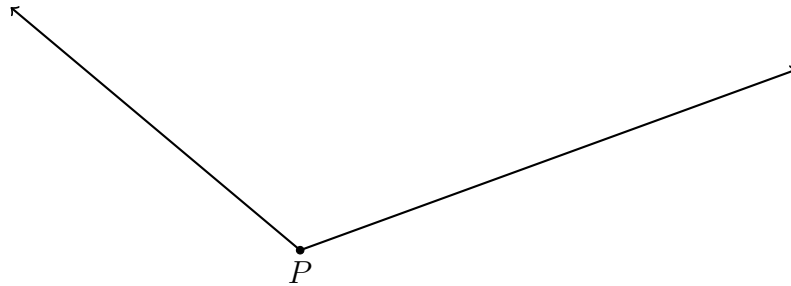
**2.3 Do Now: Midpoint calculations & rectangle measurements**

1. Given  $\overleftrightarrow{TC}$  as shown on the number line.



What is the midpoint between the points  $T$  and  $C$ ?

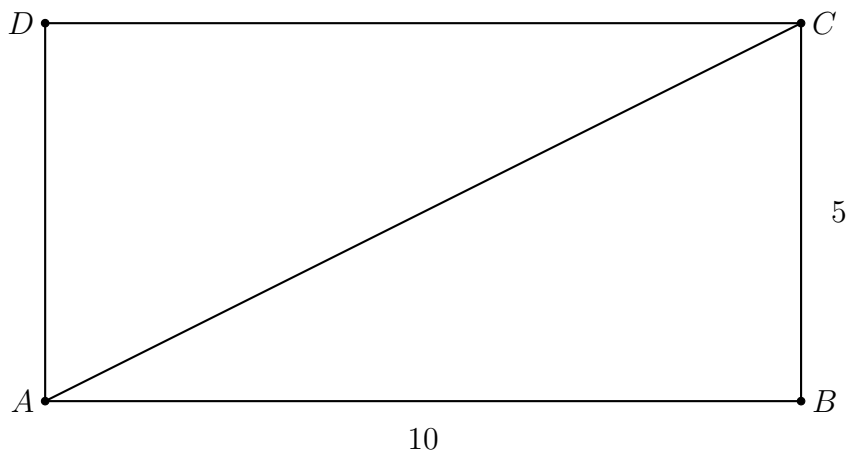
2. Find the measure of  $\angle P$  in degrees?



3. Given  $\overline{AMB}$ ,  $M$  bisects  $\overline{AB}$ ,  $AM = 3x - 10$ ,  $BM = x + 4$ . Find  $AB$ .  
Complete all the steps for full credit.
- (a) Sketch and label the situation
  - (b) Write an equation
  - (c) Solve for  $x$
  - (d) Answer the question
  - (e) Check your solution

4. Draw a rectangle that is 9 centimeters long horizontally and 4 centimeters tall vertically.  
(use a square to ensure the sides are perpendicular)

5. Given the rectangle  $ABCD$  shown below, with  $AB = 10$  and  $BC = 5$ . The diagonal  $\overline{AC}$  is drawn to create two triangles. Find the area of the lower triangle,  $\triangle ABC$ .



6. The line segment  $\overline{MN}$  is trisected by the points  $K$  and  $L$ . Given that  $MN = 15$ . Find  $KL$ . (draw a picture)