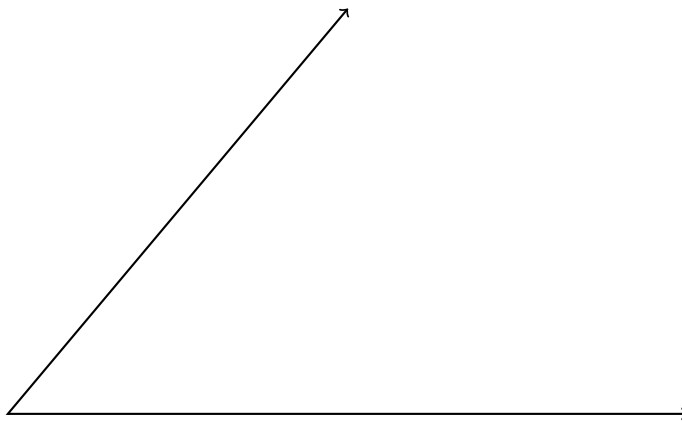


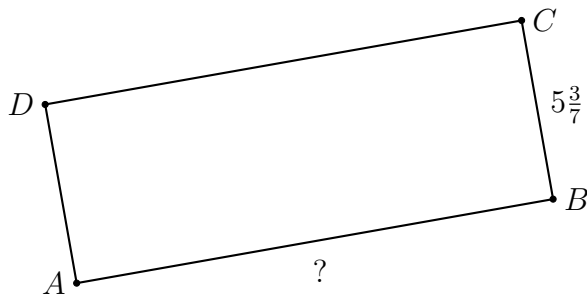
Name:

3.2 Homework: Segment & Area Calculations

1. Complete the construction of the bisector of the given angle.



2. Given the rectangle $ABCD$ shown below, with $BC = 5\frac{3}{7}$. If the area of the rectangle is 76, find AB .

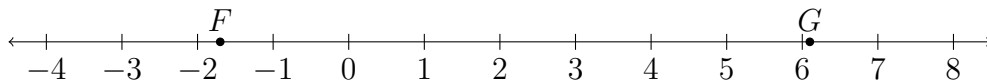


3. The area of a square is 144 square feet.

(a) Find the length of the side of the square s .

(b) Find the perimeter of the square.

4. Given \overleftrightarrow{FG} as shown on the number line, with $F = -1.7$ and $G = 6.1$.



The point H is the bisector of \overline{FG} . Find the value of H , and mark and label it on the numberline \overleftrightarrow{FG} above.

5. Given that $m\angle 2 = 5x + 30$ and $m\angle 4 = 7x - 10$ as shown in the diagram, find $m\angle 2$.

