# Midpoints and Bisectors 

## Midpoints and Bisectors

- Use the terms congruent, midpoint, and bisect.
- Use both the Segment Addition Postulate and the Bisector Theorem to solve for lengths of a segment.
- Language Objectives:
- Define congruent, midpoint, and bisect
- Explain the difference between the Bisector Theorem and the Segment Addition Postulate


## Vocabulary

- Congruent
- Midpoint
- Bisect


## Segment Addition Postulate

- Set up the equations for each.



## Segment Bisector Theorem

- If a segment is bisected, both sides will be congruent.
- You don’ t want to add them together like we did with segment addition!
- It will have tick marks or will tell you the segment is bisected or has a midpoint.


## Segment Bisector Practice

- Set up an equation for each.



## Midpoint

- You can find the midpoint by getting the average of the $x$-values and getting the average of the $y$-values.


## Midpoint Practice

1) 


2)

3)

4)


