2014-10-06

Chapter 3.3

Constructions

Objective: To perform basic constructions today.

Today we will learn to construct perpendicular lines from a point to lines and segments.

Please take out your compass and straight edge!

Get out Textbooks and Comp Books!



Quiz Wednesday 3.1-3.3!

Quiz Practice!

Make sure all construction marks are clearly visible!

- 1. Copy the angle into your compbook.
- 2. Construct an angle that is twice as large.
- 3. Copy line segment AB into your compbook.
- 4. Construct the perpendicular bisector of AB.
- 5. Construct a new line segment FG that has a measure FG = 2AB-CD.

Work as a group. 10 minutes.

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Create a line segment AB. Then construct a Line Segment that is congruent AB.

A _____ B

Create a line segment \overline{AB} . Then construct a Line Segment that is congruent \overline{AB} .

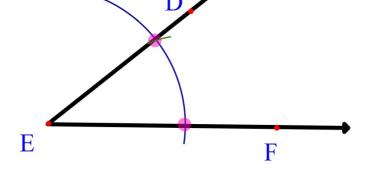
3.





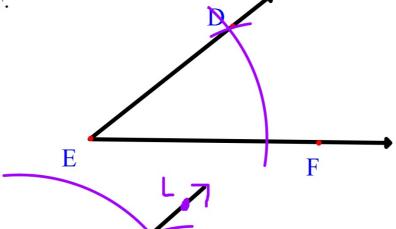
Construct ∠DEF, and then construct ∠LMN that is congruent

to ∠DEF.

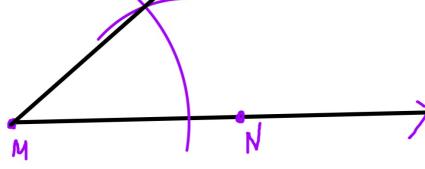


Construct ∠DEF, and then construct ∠LMN that is congruent

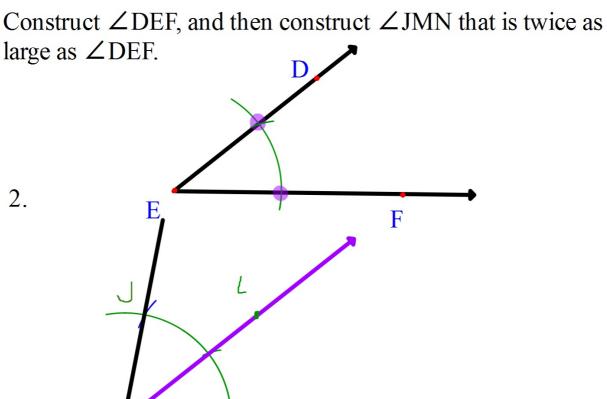




1.



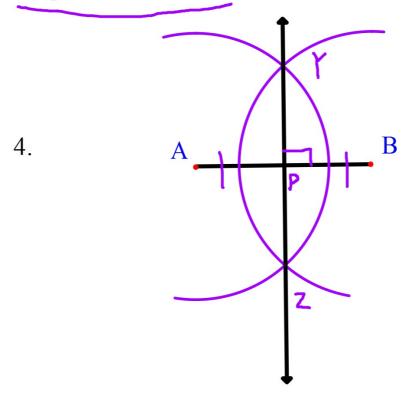
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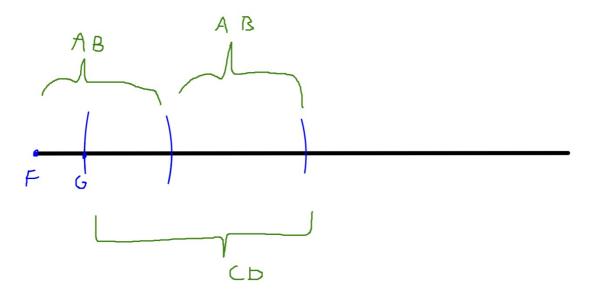
Create a line segment \overline{AB} . Then construct a line \overline{YZ} that is the Perpendicular Bisector of \overline{AB} .

A _____ B

Create a line segment AB. Then construct a line YZ that is the Perpendicular Bisector of AB.



5. Construct a new line segment FG that has a measure FG = 2AB-CD.

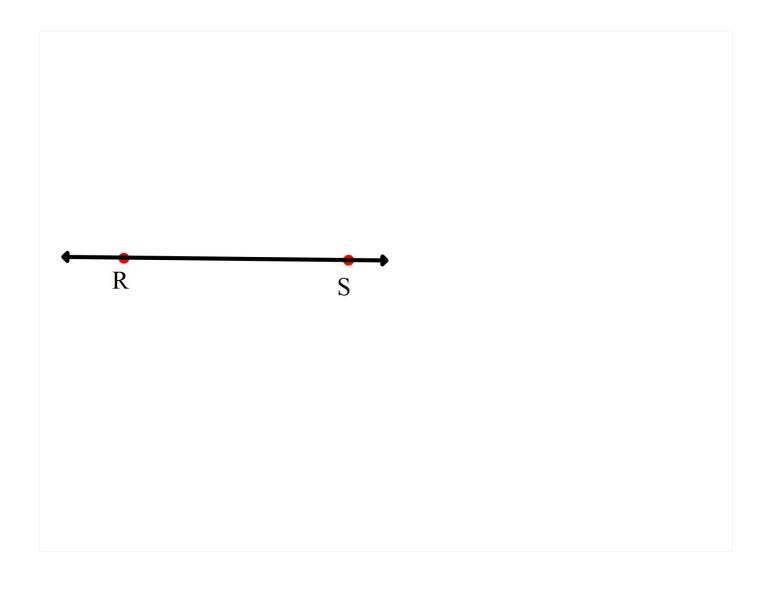


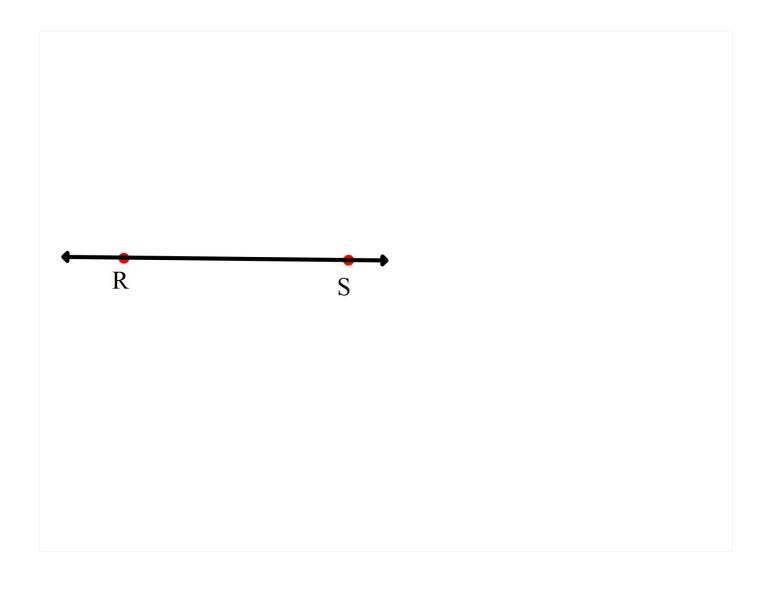
Term	Definition	Picture
Median	line segment connecting a vertex to the midpoint of its opposite side	
Midsegment	line segment connecting a midpoint of one side to the midpoint of another side	

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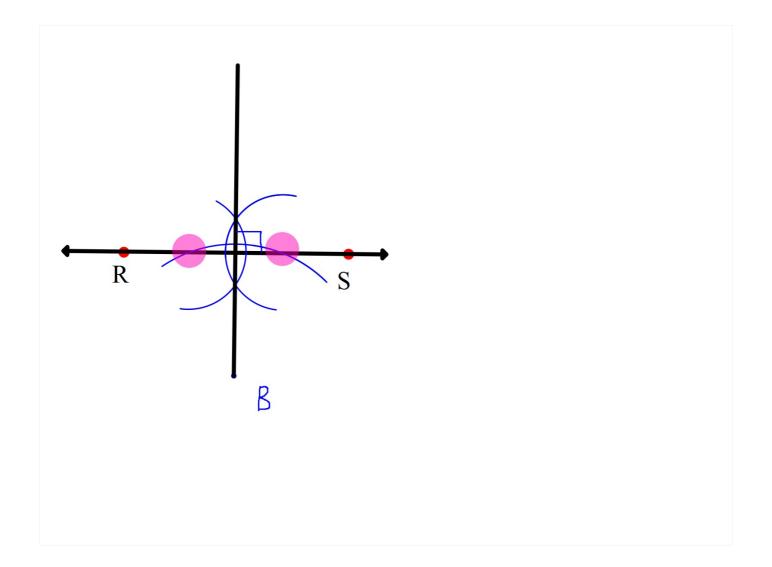
Steps 1-5 (including Conjecture)

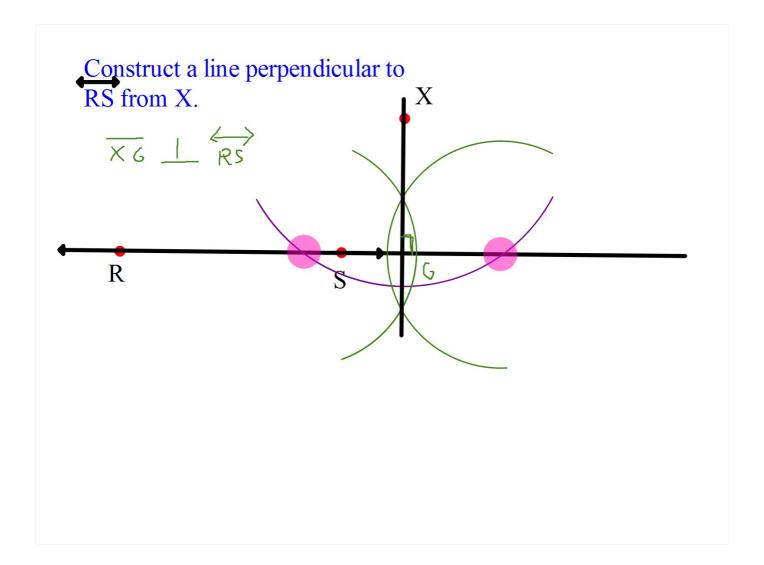
Work TOGETHER!

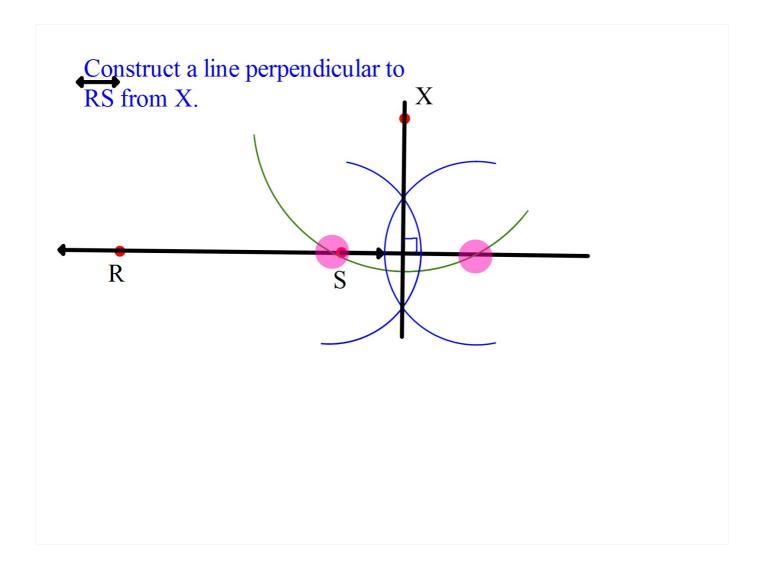


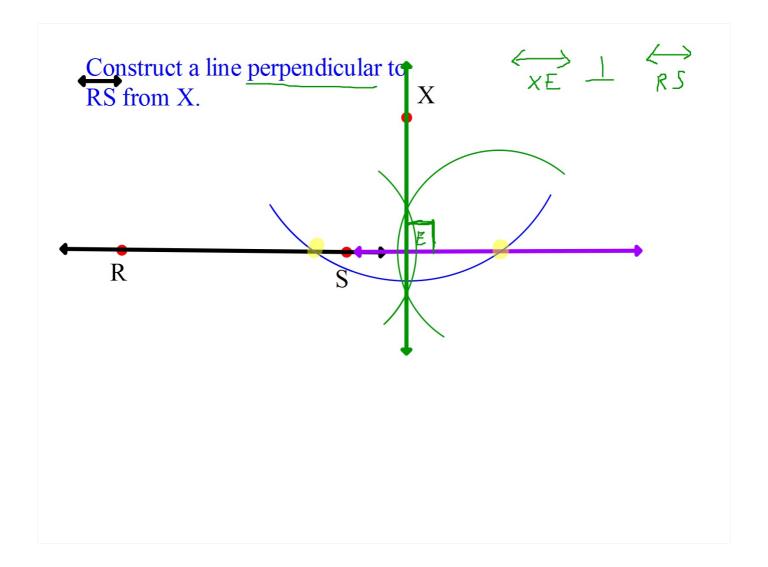


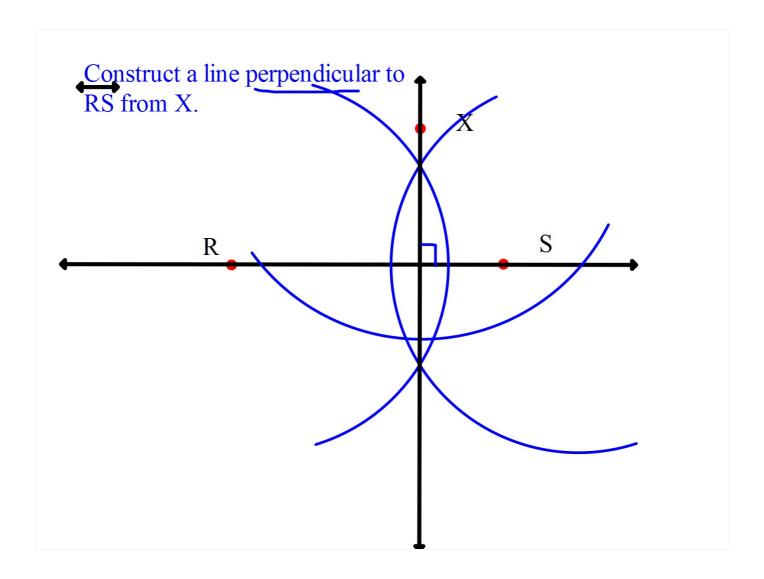
Perpendicular to a point R

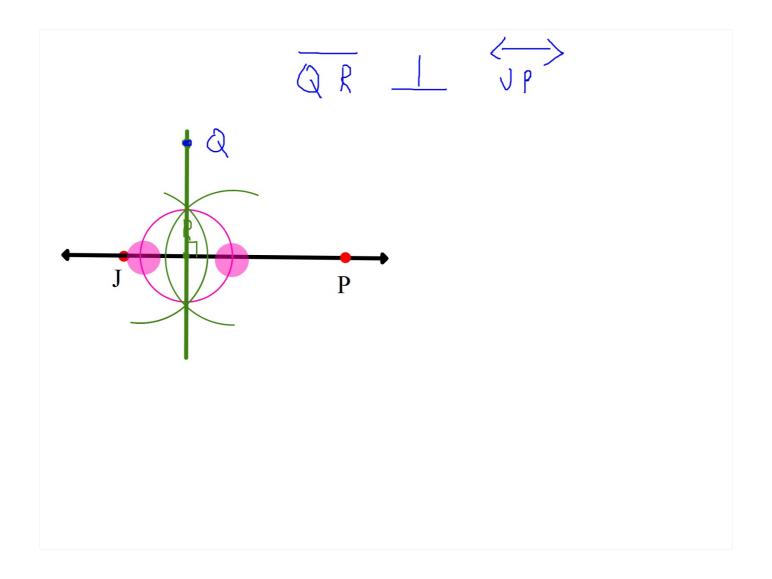


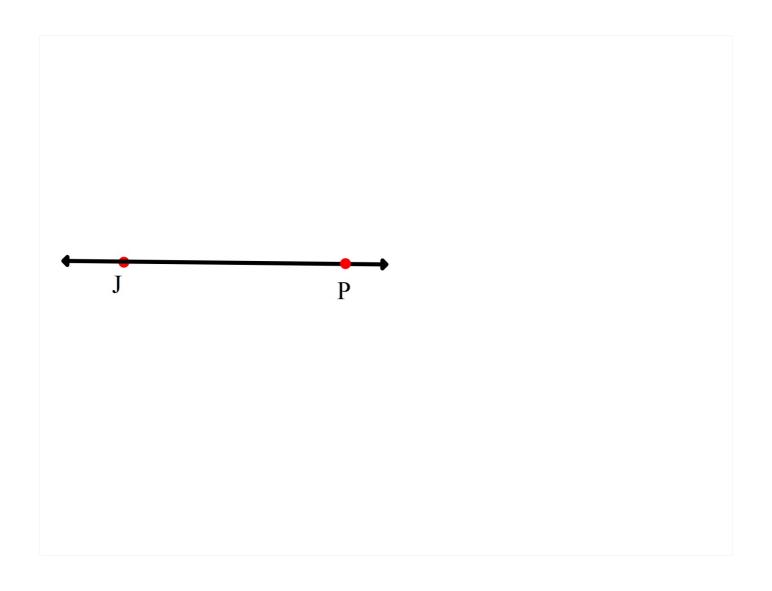


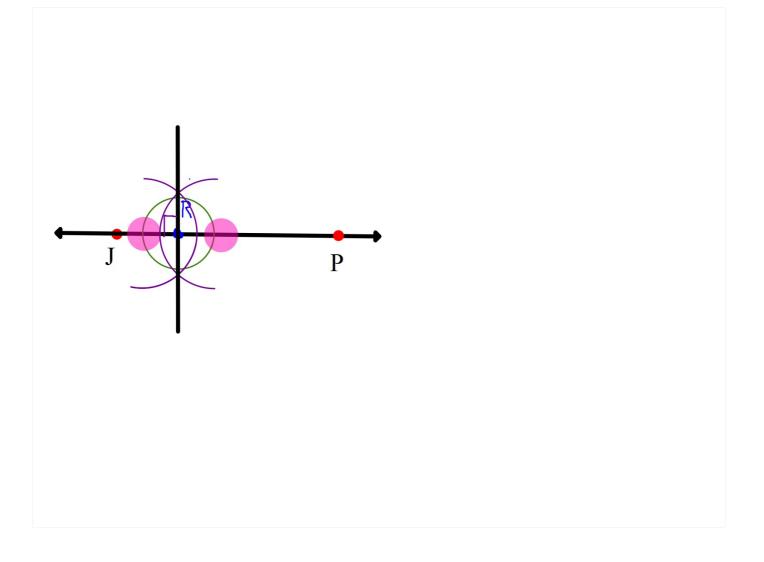


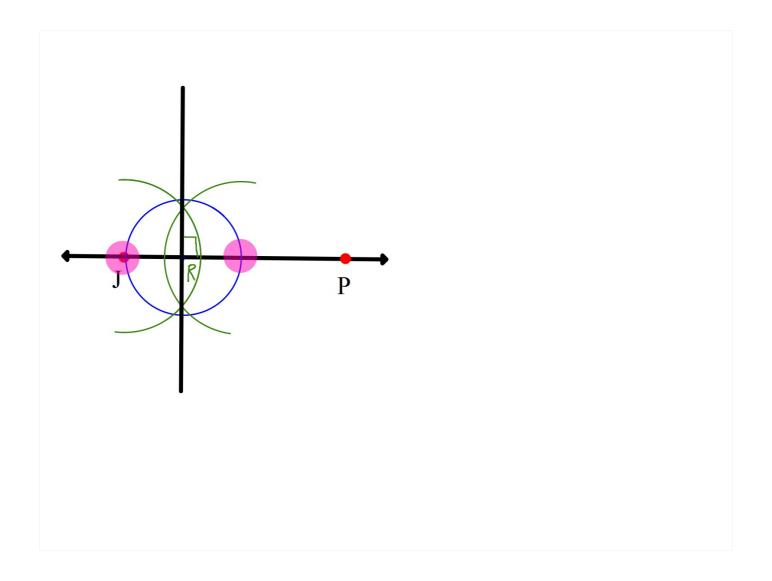


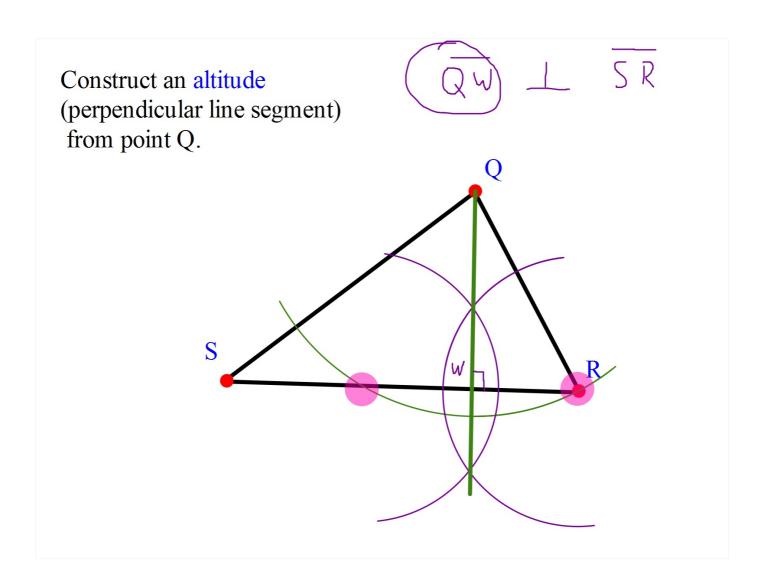


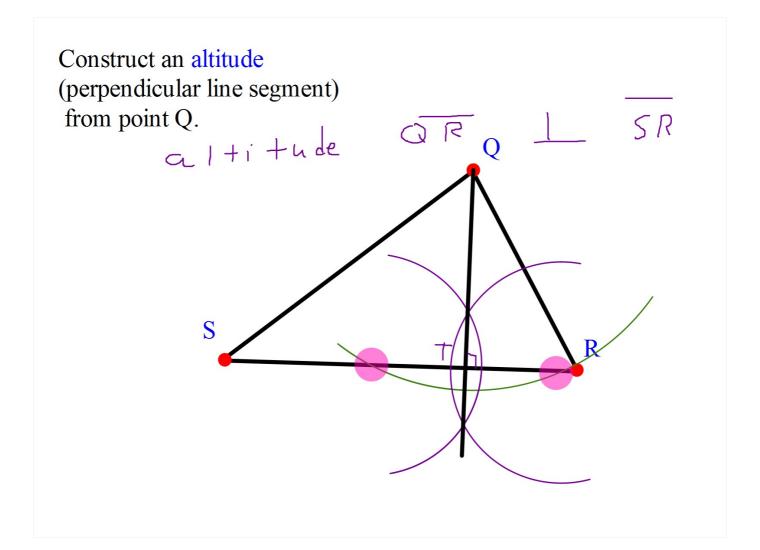




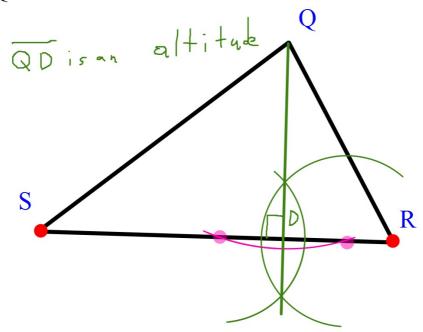


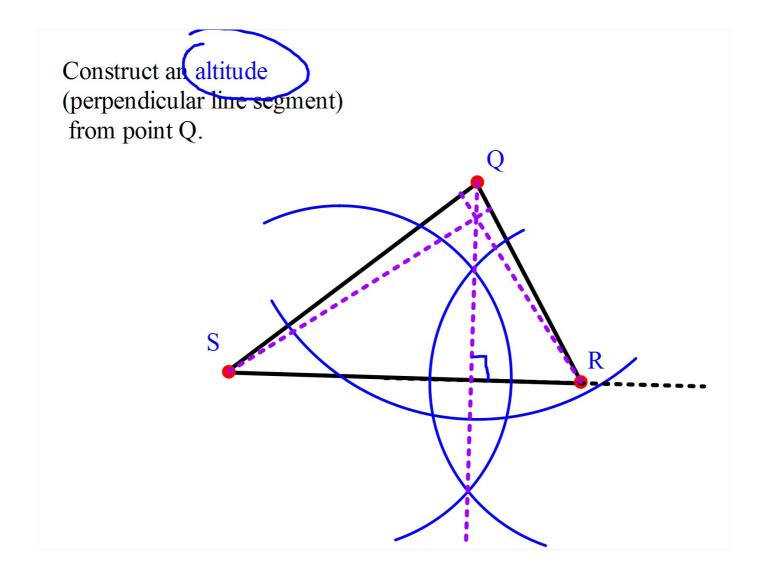






Construct an <u>altitude</u> (perpendicular line segment) from point Q.





Term	Definition	Picture
Altitude	a perpendicular line segment connecting a vertex to the opposite side	
HW: p. 156 #1-5, 11-16		
	Quiz Wednesday 3.1-3.3!	

