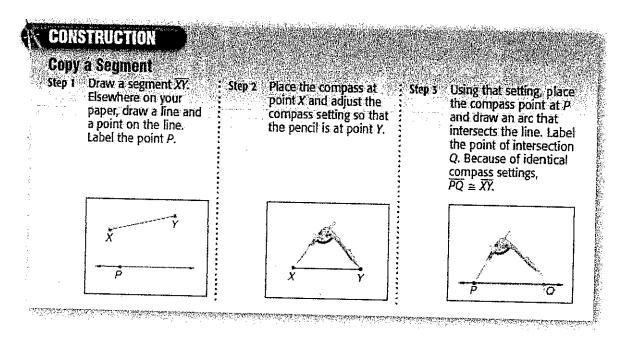
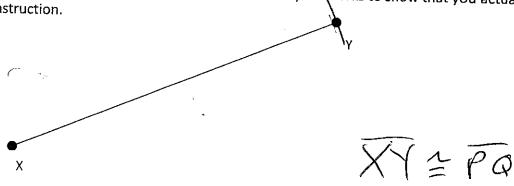
Name:	
Date:	Per.:

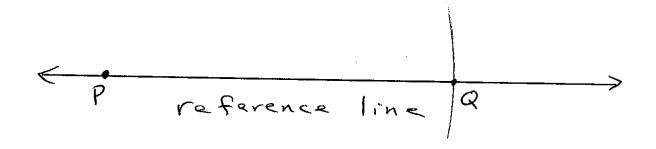
Geometry Constructions #1

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Now do the construction yourself, here. Be sure to leave your marks to show that you actually did the construction.





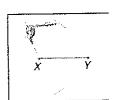
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CONSTRUCTION

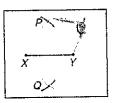
Bisect a Segment

Step 1 Draw a segment and name it XY. Place the compass at point X. Adjust the compass so that its width is greater than $\frac{1}{2}XY$. Draw arcs above and below XY.

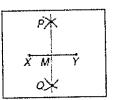


Slep 2 Using the same compass setting, place the compass at point Y and draw arcs above and below XY that intersect the two arcs previously drawn. Label the points of intersection as P and Q.

Point where it intersects XY as M.
Point M is the midpoint of XY, and \overrightarrow{PQ} is a bisector of XY. Also $XM = MY = \frac{1}{2}XY.$ the compass at point Y



Step 3 Use a straightedge to draw PQ. Label the point where it intersects XY as M. Point M is the midpoint



Now do the construction you self, here. Be sure to leave your marks to show that you actually

Χ

did the construction.

XM = YM

W