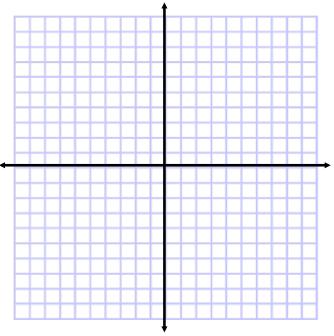
Graph the line y = 3x - 4



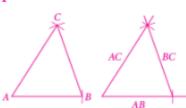




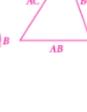




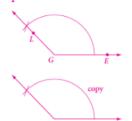
7. possible answer:



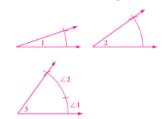
8.



5. possible answer:



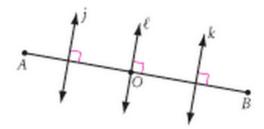
**6.**  $m \angle 3 = m \angle 1 + m \angle 2$ ; possible answer:



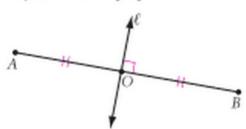
3.2 - Constructing Perpendicular Bisectors	

## segment bisector -

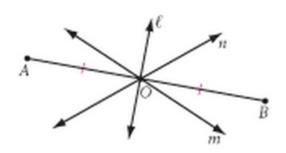
## perpendicular bisector -



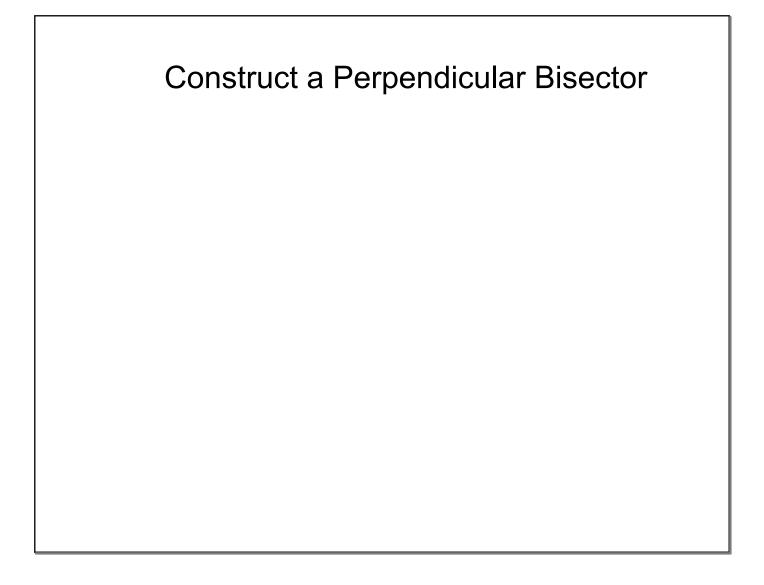
Lines j, k, and  $\ell$  are perpendicular to  $\overline{AB}$ .



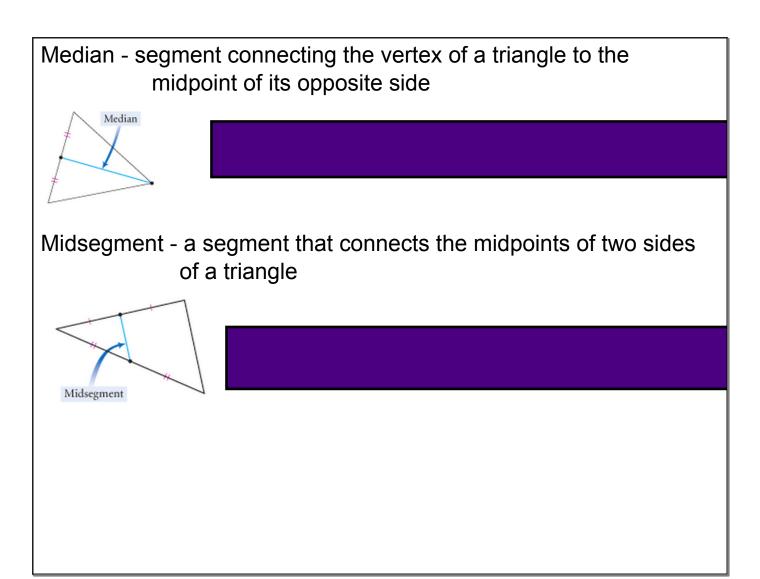
Line  $\ell$  is the perpendicular bisector of  $\overline{AB}$ .



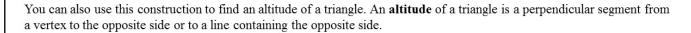
Lines  $\ell$ , m, and n bisect  $\overline{AB}$ .

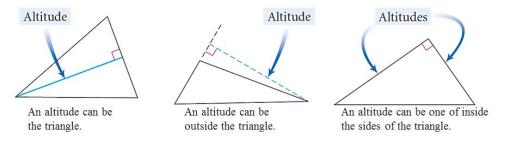


Perpendicular Bisector Conjecture: If a point is on the perpendicular bisector of a segment, then it is equidistant from the endpoints Converse of the Perpendicular Bisector Conjecture: If a point is equidistant from the endpoints of a segment, then it is on the perpendicular bisector of the segment.



3.3 - Constructing perpendiculars to a line





The length of the altitude is the height of the triangle. A triangle has three different altitudes, so it has three different heights.

