

Read the definition of "concurrent lines" on p 156. What do you notice about each P176 p. 184 new construction above?

On $\triangle DEF$ above, label intersection Q. Put compass point on Q, lead on one vertex, and make a complete circle. What do you notice about the vertices of the triangle?

This is called a "circumscribed circle". Copy definition and sketch from p 200. 67 new book The prefix "circum" means "about" or "around". The center of your circle in the construction on ΔDEF is called the "circumcenter". Label it on your construction.

On $\triangle ABC$, the point of intersection is called the "incenter". Label it. On ΔXYZ , the point of intersection is called the "orthocenter". Label it. Also define:

"c" concurrent lines - three or more lines that intersect at a point (p 176) p184 new

Write up conjectures 9-11 on pp 176-178. p 184-6 now Go to your textbook and copy conjecture number, page number, conjecture title, and text. C-9 through C-11 - the fill-in-the-blank is "are concurrent". Sketches below.

HW #14 - p 162: 1 or 2, 3; pp 180-1: 4-7, 12, 20-24, p 169:1-3 (Total constructions on HW: eight)

p167:11,13,17,p171:3, p175-6:1-3

circumcenter

orthocenter