Date

6.2 Notetaking with Vocabulary (continued)

Theorems

Theorem 6.5 Circumcenter Theorem

The circumcenter of a triangle is equidistant from the vertices of the triangle.

If \overline{PD} , \overline{PE} , and \overline{PF} are perpendicular bisectors, then PA = PB = PC.

Notes:



Theorem 6.6 Incenter Theorem

The incenter of a triangle is equidistant from the sides of the triangle.

If \overline{AP} , \overline{BP} , and \overline{CP} are angle bisectors of $\triangle ABC$, then PD = PE = PF.

Notes:



Extra Practice

In Exercises 1–3, *N* is the incenter of $\triangle ABC$. Use the given information to find the indicated measure.



F

6. *GE*

6.2 Notetaking with Vocabulary (continued)









In Exercises 8–10, find the coordinates of the circumcenter of the triangle with the given vertices.

8. A(-2, -2), B(-2, 4), C(6, 4) **9.** D(3, 5), E(3, 1), F(9, 5) **10.** J(4, -7), K(4, -3), L(-6, -3)







Copyright © Big Ideas Learning, LLC All rights reserved.