Name

 Class

Date

4.10 Bisectors in Triangles

 **Coordinate Geometry Find the circumcenter of each triangle.**

 **1. 2. 3.**

 **Coordinate Geometry Find the circumcenter of *ABC.***

**4.** *A*(1, 3) **5.** *A*(2, −3) **6.** *A*(−5, −2) **7.** *A*(5, 6)

*B*(4, 3) *B*(−4, −3) *B*(1, −2) *B*(0, 6)

*C*(4, 2) *C*(−4, −7) *C*(1, 6) *C*(0, −3)

**Name the point of concurrency of the angle bisectors.**

**8. 9. 10.**

**11. 12. 13.**

**Find the value of *x.***

**14. 15. 16.**

**17. 18. 19.**

**20.** Where should the farmer place the hay bale so that it is equidistant from the three gates?



**21.** Where should the fire station be placed so that it is equidistant from the grocery store, the hospital, and the police station?

