**Name each of the following components of the triangle.**

|  |  |
| --- | --- |
| 1.
2. Altitude: \_\_\_\_\_
3. Angle Bisector: \_\_\_\_\_
4. Median: \_\_\_\_\_
5. Perpendicular

 Bisector: \_\_\_\_\_ | 1. Altitude: \_\_\_\_\_
2. Angle Bisector: \_\_\_\_\_
3. Median: \_\_\_\_\_
4. Perpendicular

 Bisector: \_\_\_\_\_ |
| 1. Altitude: \_\_\_\_\_
2. Angle Bisector: \_\_\_\_\_
3. Median: \_\_\_\_\_
4. Perpendicular

 Bisector: \_\_\_\_\_ | 1. *E* is the midpoint of , *F* is the midpoint of , and *G* is the midpoint of . If the concurrency is not shown, say so.
2. Centroid: \_\_\_\_\_
3. Circumcenter: \_\_\_\_\_
4. Incenter: \_\_\_\_\_
5. Orthocenter: \_\_\_\_\_
 |

**Use the given information to answer each of the following**

1. If *N* is the incenter of the triangle, find the value of *x* and justify

your answer with a theorem, postulate, or definition.

1. If *L* is the centroid of the triangle and , find the value of *x* and justify your answer with a theorem, postulate, or definition.

