## Chapter 3 Constructions Assignment \#3

1. To find the circumcenter of a triangle, you have to construct the triangle's three
$\qquad$ .
2. To find the incenter of a triangle, you have to construct the triangle's three
$\qquad$ .
3. To find the orthocenter of a triangle, you have to construct the triangle's three
$\qquad$ .
4. To find the centroid of a triangle, you have to construct the triangle’s three
$\qquad$
5. Birdy McFly is designing a large triangular hang glider. She needs to locate the center of gravity for her glider. What point does she need to locate? $\qquad$ Birdy wishes to decorate her glider with the largest possible circle within her large triangular hang glider. Which point of concurrency does she need to locate? $\qquad$
6. Point $M$ is the centroid.

$C M=16$
$M O=10$
$T S=21$
$A M=$ $\qquad$
$S M=$ $\qquad$
$T M=$ $\qquad$
$U M=$ $\qquad$
7. Point $Z$ is the centroid.

$G I=G R=G N$
$C Z=14$
$T Z=30$
$R Z=A Z$
$R H=$ $\qquad$
$T E=$ $\qquad$
