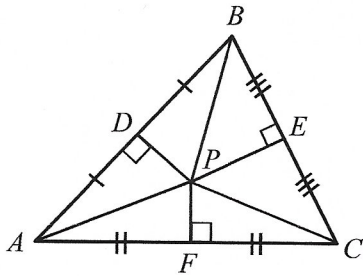


NAME: \_\_\_\_\_

PERIOD: \_\_\_\_\_

# Centers of Triangles: Circumcenter

## Circumcenter



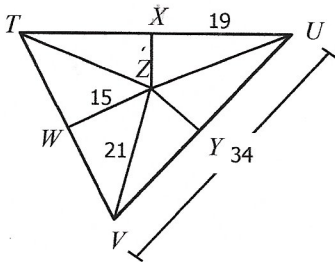
- The \_\_\_\_\_ of the sides of a triangle intersect at a point called the **circumcenter**.
- The circumcenter is always equidistant from the \_\_\_\_\_ of the triangle.

Use the diagram to the left to answer the following questions:

- 1) List the perpendicular bisectors: \_\_\_\_\_
- 2) Name the circumcenter: \_\_\_\_\_
- 3) List all congruent segments: \_\_\_\_\_  
\_\_\_\_\_

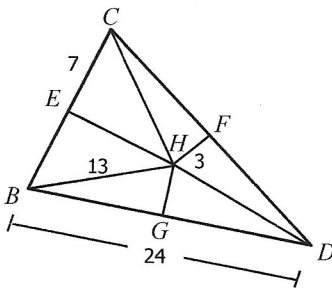
## Practice!

1. If Z is the circumcenter of  $\triangle TUV$ , find each missing measure.



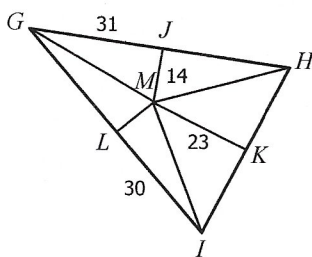
- a)  $TU =$  \_\_\_\_\_
- b)  $VY =$  \_\_\_\_\_
- c)  $UZ =$  \_\_\_\_\_
- d)  $WV =$  \_\_\_\_\_
- e)  $TV =$  \_\_\_\_\_

2. If H is the circumcenter of  $\triangle BCD$ , find each missing measure.



- a)  $GD =$  \_\_\_\_\_
- b)  $BC =$  \_\_\_\_\_
- c)  $EH =$  \_\_\_\_\_
- d)  $FD =$  \_\_\_\_\_
- e)  $CD =$  \_\_\_\_\_

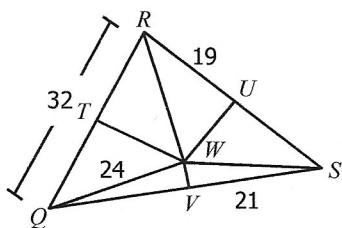
3. If M is the circumcenter of  $\triangle GHI$ , find each missing measure.



- a)  $GI =$  \_\_\_\_\_
- b)  $MH =$  \_\_\_\_\_
- c)  $IK =$  \_\_\_\_\_
- d)  $HI =$  \_\_\_\_\_
- e)  $MG =$  \_\_\_\_\_

# MORE PRACTICE: Circumcenter

**Directions:** If  $W$  is the circumcenter of  $\triangle QRS$ , find each measure.



1.  $RS$

2.  $TQ$

3.  $WS$

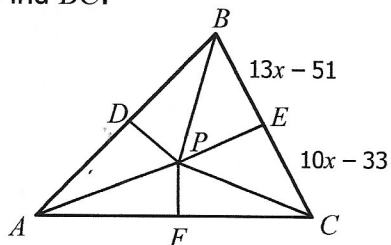
4.  $QV$

5.  $TW$

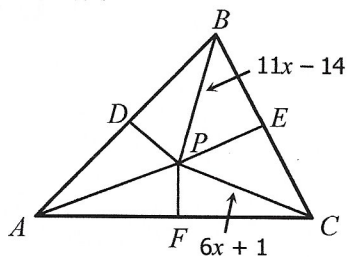
6.  $WV$

**Directions:** If  $P$  is the circumcenter of  $\triangle ABC$ , find each measure.

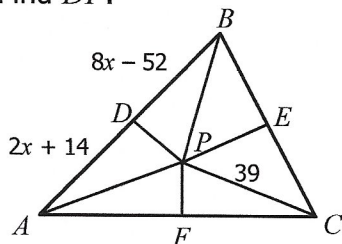
7. Find  $BC$ .



8. Find  $AP$ .



9. Find  $DP$ .



10. Find  $FC$ .

