DAY 4

enVision Geometry

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Name _____

5-2 Reteaching

Bisectors in Triangles

1. Write the letter of each figure beside its definition.

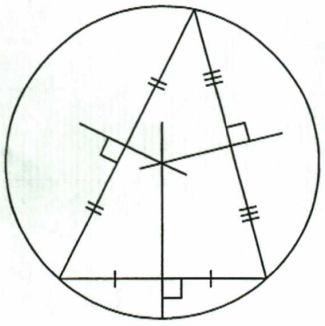
The **circumcenter** is the point of concurrency of the perpendicular bisectors of a triangle.

The **circumscribed circle** is centered at the circumcenter and contains the vertices of a triangle.

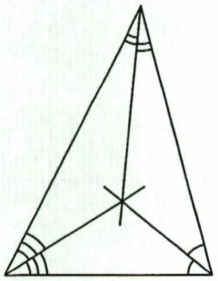
The **incenter** is the point of concurrency of the angle bisectors of a triangle.

The **inscribed** circle is centered at the incenter, and the sides of the triangle touch the circle.

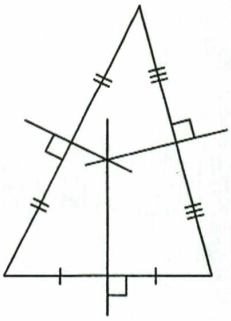
A.



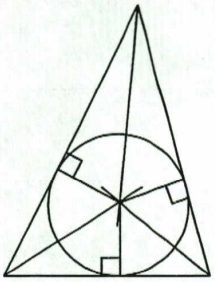
B.



C.



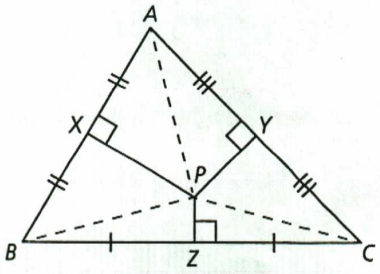
D.



2. Timothy says $PX = PY = PZ$.

a. What mistake did Timothy likely make?

b. From what points is P equidistant? Explain your reasoning.



3. Complete the sentences below to find the value of x.

$\overline{AP}$, $\overline{BP}$, and $\overline{CP}$ are the _____ of $\triangle ABC$.

So P is the _____ of $\triangle ABC$.

The incenter is equidistant from the _____ of $\triangle ABC$, so $PS =$ _____.

Therefore, $x =$ _____.