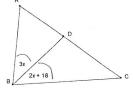
Name Date

Always/Sometimes/Never

- Swetnes 1. A median is an altitude
- Base angles in an isosceles triangle are congruent. Alway 5 2.
- The incenter is on the exterior of the triangle. Never 3.
- 4. A right triangle is also obtuse.
- 2 triangles are congruent by AAA. Newer 5.
- 6. BD is an \(\sqrt{bisector}. \) Find the measure of \(\sqrt{ABC} \):



$$3x = 2x + 18$$

 $-2x - 2x$
 $x = 18$

$$3x = 2x + 18$$

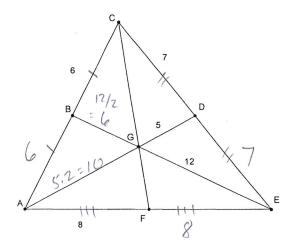
$$-2x - 2x$$

$$4ABD = 3(18) = 54^{\circ}$$

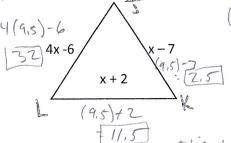
$$4ABC = 2 \cdot 54 = 108^{\circ}$$
Applies use the diagram at right to find the following lengths.

Given that B, D, & F are midpoints, use the diagram at right to find the following lengths. 7.

Perimeter of $\triangle ACE = 42$



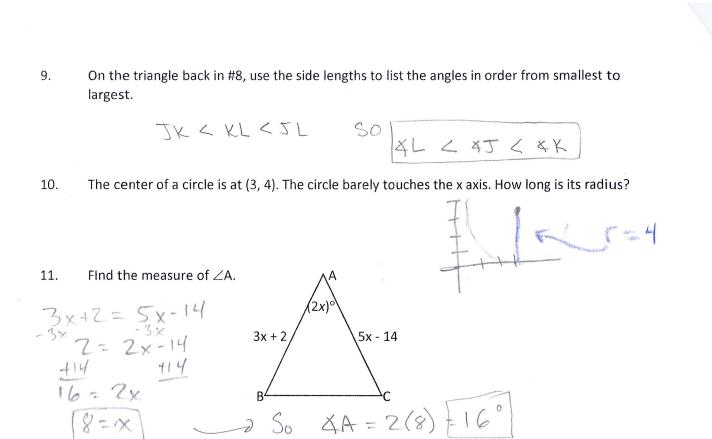
If the triangle below has a perimeter of 46, determine if it is scalene, isos, or equilateral. 8.

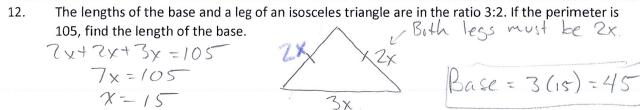


$$(4x-6)+(x-7)+(x+2) = 46$$

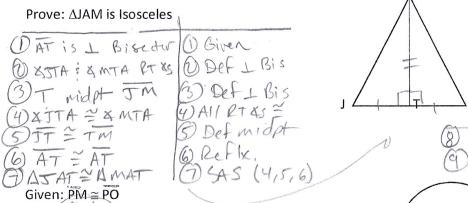
 $6x-11=46$
 $6x=57$
 $x-9=$

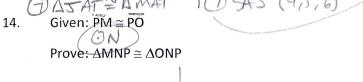
It's looking Scalene

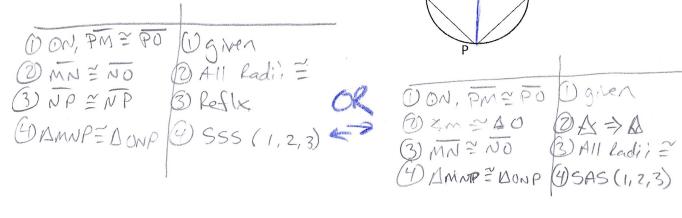


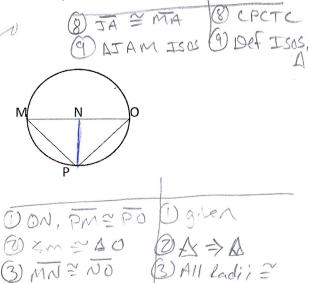


Given: \overrightarrow{AT} is a \bot Bisector 13.



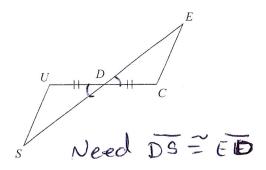




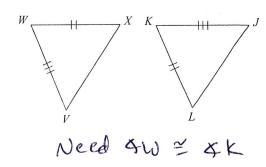


State what additional information is required in order to know that the triangles are congruent for the reason given.

11) SAS

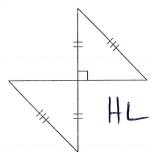


12) SAS

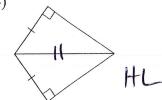


If the triangles can be shown congruent, state the rule that would show them so. If there's not enough information, then state that they're not congruent. No need to write a full congruent statement.

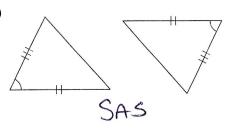
13)



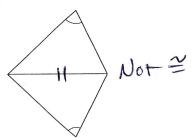
14)



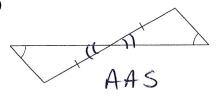
15)



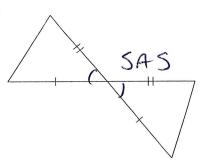
16)



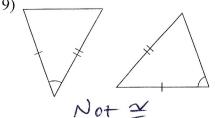
17)



18)



19)



20)

