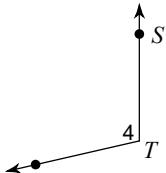
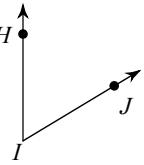


**Assignment****Name the angle in four ways.****Name the vertex and sides of the angle.**

1)

 $\angle T, \angle 4, \angle UTS, \angle STU$ 

2)

 $I, \overrightarrow{IH}$  and  $\overrightarrow{IJ}$ **Classify each angle as acute, obtuse, right, or straight.**3)  $98^\circ$ 

obtuse

4)  $90^\circ$ 

right

5)  $74^\circ$ 

acute

6)  $154^\circ$ 

obtuse

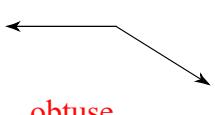
7)  $20^\circ$ 

acute

8)  $180^\circ$ 

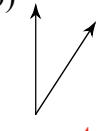
straight

9)



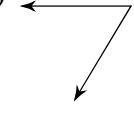
obtuse

10)



acute

11)



acute

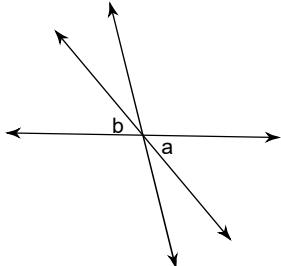
12)



straight

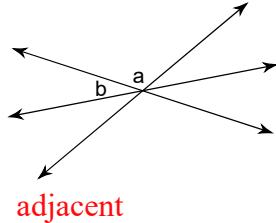
**Name the relationship(s) between the two angles: linear pair, vertical, or adjacent.**

13)



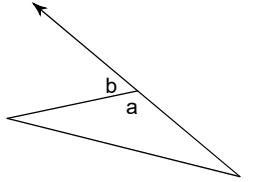
vertical

14)



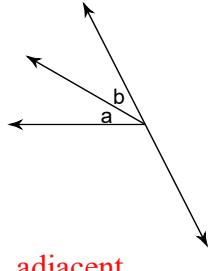
adjacent

15)



linear pair, adjacent

16)



adjacent

**Find the measure of angle b.**

17)   
A circle with a central angle labeled  $b$ . Two other angles are labeled  $32^\circ$  and  $83^\circ$ .

18)   
A circle with a central angle labeled  $b$ . Two other angles are labeled  $135^\circ$  and  $45^\circ$ .

19)   
A triangle with interior angles labeled  $42^\circ$  and  $48^\circ$ . An exterior angle at the bottom vertex is labeled  $b$ .

20)   
A triangle with interior angles labeled  $49^\circ$  and  $b$ . An exterior angle at the top vertex is labeled  $49^\circ$ .

**Find the value of x.**

21)   
A circle with a central angle labeled  $98$ . Two other angles are labeled  $(x - 66)^\circ$  and  $(x - 66)^\circ$ .

22)   
A circle with a central angle labeled  $39$ . Two other angles are labeled  $(2x + 7)^\circ$  and  $236^\circ$ .

23)   
A triangle with interior angles labeled  $17$  and  $85^\circ$ . An exterior angle at the bottom-left vertex is labeled  $5x^\circ$ .

24)   
A coordinate plane with a ray labeled  $(6x + 5)^\circ$ . A right angle is labeled  $37^\circ$ .

25)   
A straight line with an angle labeled  $38$  and an adjacent angle labeled  $(x + 27)^\circ$ .

26)   
A right angle with a small red square at the vertex, labeled  $15$ . An adjacent angle is labeled  $(4x + 1)^\circ$ .