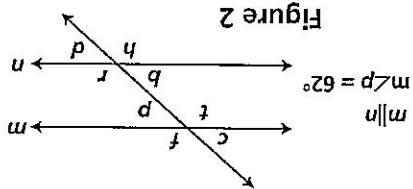


Chapter 12 Mastery Test, continued

Directions Classify each angle in Figure 2. Write interior or exterior.



12. $\angle r$

13. $\angle c$

14. $\angle t$

Directions Classify each pair of angles in Figure 2. Write supplementary, alternate interior, or corresponding.

15. $\angle c$ and $\angle b$

16. $\angle r$ and $\angle t$

Directions Find the measure of each of the following angles in Figure 2.

17. $\angle b$ and $\angle r$

18. $\angle p$ and $\angle b$

19. $\angle f$

22. $\angle c$

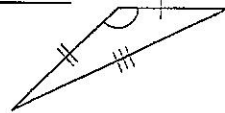
20. $\angle h$

23. $\angle t$

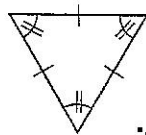
21. $\angle r$

Directions What name or names best describe each triangle?

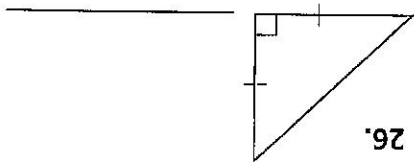
24.



25.

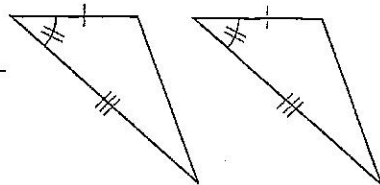


26.

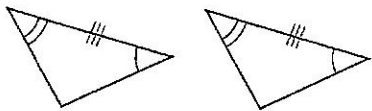


Directions Name the theorem that proves congruence.

27.



28.



Directions Solve.

29. Suppose you are standing 200 feet away from a tree and you see a kite hovering directly above that tree. The angle of elevation from you to the kite is 36° . To the nearest foot, what is the height of the kite?

30. A 16-foot-long board is leaning against the side of a building and forms a 30° angle where it touches the building. To the nearest tenth of one foot, how far above the ground does the board touch the building?