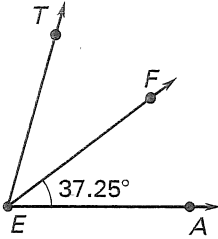


# Chapter Test C

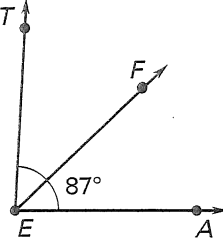
For use after Chapter 1

In Questions 19 and 20,  $\overrightarrow{EF}$  is the angle bisector of  $\angle TEA$ . Find the two angle measures not given in the diagram.

19.

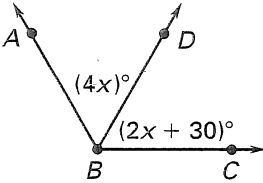


20.

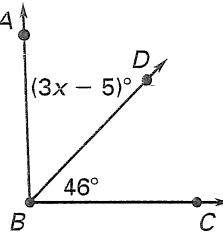


In Questions 21–23,  $\overrightarrow{BD}$  bisects  $\angle ABC$ . Find the value of  $x$ .

21.



22.

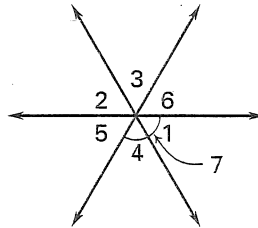


In Questions 23–25, use the diagram to solve for the missing angle measure.

23. If  $m\angle 1 = 37^\circ$ , then  $m\angle 2 = \underline{\hspace{2cm}}$ .

24. If  $m\angle 4 = 72^\circ$  and  $m\angle 5 = 43^\circ$ , then  $m\angle 1 = \underline{\hspace{2cm}}$ .

25. If  $m\angle 2 = m\angle 6 = x^\circ$ , then  $m\angle 3 = \underline{\hspace{2cm}}$ .



In Questions 26–28, refer to the diagram for Questions 24–26 and state whether the given angles are a linear pair, a vertical pair, or neither.

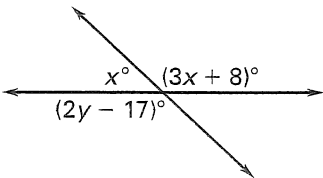
26.  $\angle 1$  and  $\angle 2$

27.  $\angle 2$  and  $\angle 3$

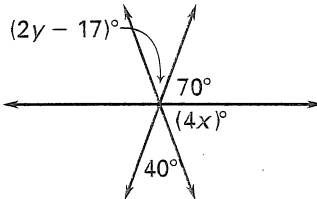
28.  $\angle 5$  and  $\angle 7$

Find the values of the variables.

29.



30.



Find the area of the figure described.

31. Triangle with height 3.25 cm and base of 5 cm

32. Square with side length  $4\frac{1}{2}$  ft

33. Circle with radius 6 yd

## Answers

19. \_\_\_\_\_

20. \_\_\_\_\_

21. \_\_\_\_\_

22. \_\_\_\_\_

23. \_\_\_\_\_

24. \_\_\_\_\_

25. \_\_\_\_\_

26. \_\_\_\_\_

27. \_\_\_\_\_

28. \_\_\_\_\_

29. \_\_\_\_\_

30. \_\_\_\_\_

31. \_\_\_\_\_

32. \_\_\_\_\_

33. \_\_\_\_\_