

10-5

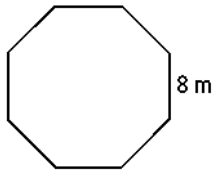
Practice

Form G

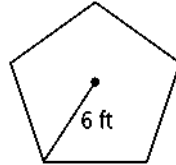
Trigonometry and Area

Find the area of each regular polygon. Round your answers to the nearest tenth.

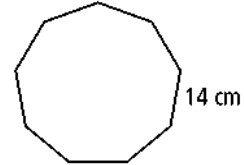
1.



2.



3.



Find the area of each regular polygon. Round your answers to the nearest tenth.

4. hexagon with side length 4 m

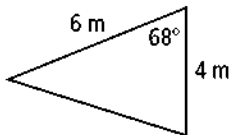
5. pentagon with side length 10 in.

7. decagon with radius 5 mm

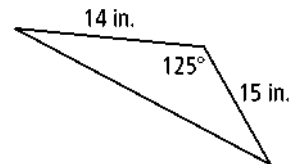
10. 15-gon with perimeter 120 ft

Find the area of each triangle. Round your answers to the nearest tenth.

12.



14.



18. $ABCDEFGH$ is a regular octagon with center X and radius 6 cm. Find each measure. If necessary, round your answers to the nearest tenth.

a. $m\angle FXE$

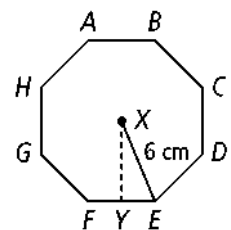
b. $m\angle YXE$

c. XY

d. FE

e. perimeter of $ABCDEFGH$

f. area of $ABCDEFGH$



10-5

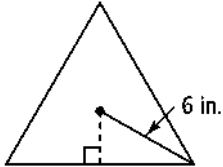
Practice (continued)

Form G

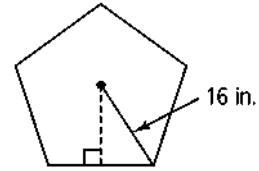
Trigonometry and Area

Find the perimeter and area of each regular polygon to the nearest tenth.

21.



23.

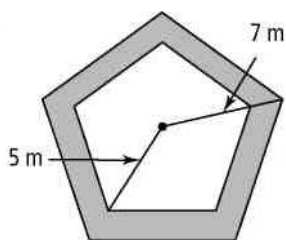


24. The central angle of a regular polygon is 188. The perimeter of the polygon is 144 ft. What is the area of the polygon to the nearest tenth?

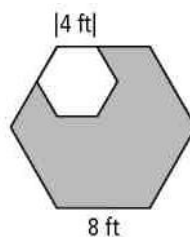
25. The cost for refinishing a floor is \$2.50/ft². What is the cost of refinishing a hexagonal floor that has a radius of 5.5 ft?

The polygons are regular polygons. Find the area of the shaded region.

26.



27.



28.

