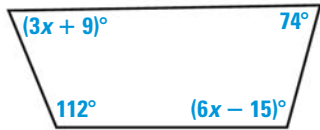


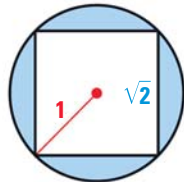
5 TAKS PRACTICE

PRACTICE FOR TAKS OBJECTIVES 6 AND 8

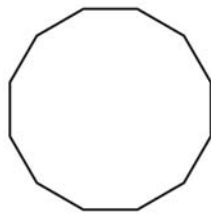
1. Which equation can be used to determine the value of x in the diagram?



- A $3x + 9 + 112 + 6x - 15 + 74 = 360$
 B $3x + 9 + 112 + 6x - 15 + 74 = 720$
 C $3x + 9 = 6x - 15$
 D $112 + 6x - 15 = 3x + 9 + 74$
2. A square with a side length of $\sqrt{2}$ units is inscribed in a circle with a radius of 1 unit. What is the approximate area of the shaded region?

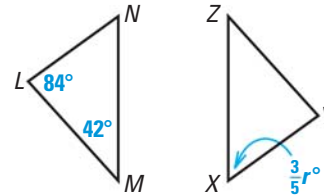


- F 1.14 square units
 G 1.73 square units
 H 4.28 square units
 J 5.14 square units
3. The floor plan shown below for a gazebo is a regular dodecagon, a polygon with 12 sides. What is the measure of each interior angle?



- A 140°
 B 150°
 C 180°
 D 2160°

4. Given that $\angle Z \cong \angle M$ and $\angle Y \cong \angle L$, what is the value of r ?



- F 18
 G $\frac{162}{5}$
 H 58
 J 90
5. Which transformation is used to create the pattern shown?



- A Translation
 B Reflection
 C Rotation
 D Dilation

MIXED TAKS PRACTICE

6. A community is having a Taste of the Town event featuring dishes from the area's best restaurants. The cost of admission is \$25 in advance and \$35 at the door. There are x people who pay in advance. A total of 530 tickets are sold. Which equation can be used to find the total amount, s , of money from ticket sales?

TAKS Obj. 4

- F $s = 25x - 35(530 + x)$
 G $s = 25(530 - x) + 35x$
 H $s = 25x + 35(530 - x)$
 J $s = 25x + 35(530)$