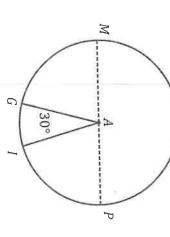
Section 9 – Topic 4 Sectors of a Circle

 A circle has an 18-inch radius and a shaded sector with a central angle of 50°. Determine the area of the shaded sector.

The area of a sector with a radius of 14 yards is 38.28 square yards.
Calculate the approximate angle of the sector. Round to the nearest tenth.

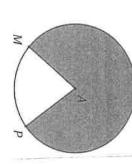
3. In the diagram below of circle A, diameter MP=26, $m\angle GAI=30^\circ$ and radii \overline{GA} and \overline{AI} are drawn.

(D

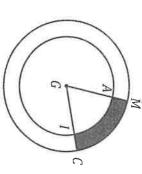


If $\widehat{MG}\cong \widehat{IP}$, find the area of the sector MAG in terms of π and approximate to the nearest hundredth.





5. PaintsPlus LLC specializes in circular paint jobs. Their most recent job is modeled in the diagram below.



The two circles have center G, where radius GI=4 feet, radius MG=6.5 feet, and $m\angle MGC=72^\circ$. Determine the total cost to paint area MCAI if th quoted price is \$40 per square foot. Leave your answers in terms of π until calculating the cost and then round to the nearest dollar.

- ® \$680
- © \$660
- ⑤ \$620

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