

Practice:
 1. Find the perimeter of a 60° slice of a large 7 inch radius pizza.
 $r=7$ $\theta = 60^\circ \frac{\pi}{3}$
 $S = r \cdot \theta$
 $S = 7 \cdot \frac{\pi}{3}$
 $\boxed{7.33 \text{ inches}}$

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2. What is the area of the same slice of pizza?
 $r=7$ $\theta = \frac{\pi}{3}$
 $A = \frac{1}{2} r^2 \theta$
 $(\frac{1}{2})(7)^2 (\frac{\pi}{3})$ $\boxed{25.66 \text{ in}^2}$

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Unit Conversion:
 Example 5: Albert's truck has wheels 36 inch in diameter. If the wheels are rotating at 630 rpm (revolutions per minute), find the truck's speed in miles per hour.
 $\frac{630 \text{ rev}}{1 \text{ min}} \cdot \frac{60 \text{ min}}{1 \text{ hr}} \cdot \frac{2\pi \text{ rad}}{1 \text{ rev}} \cdot \frac{18 \text{ inches}}{1 \text{ rad}} \cdot \frac{1 \text{ ft}}{12 \text{ inches}} \cdot \frac{1 \text{ miles}}{5280 \text{ ft}}$
 $\boxed{67.47 \text{ mph}}$

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4.1 pg. 356
 9-14, 17-22, 27, 30, 32, 35, 36, 43, (45)
 P: credit w/ work

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