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1. Convert $-225^{\circ}$ to radians.
2. Convert $\frac{8 \pi}{5}$ to degrees.
3. Determine the measure of an angle $\theta$, that is coterminal with $-840^{\circ}$ such that $0<\theta \leq 360^{\circ}$.
4. Determine the measure of an angle $\theta$, that is coterminal with $\frac{17 \pi}{3}$ such that $0<\theta \leq 2 \pi$.
5. For a circle with diameter 12 inches, determine the length of an arc subtended by the central angle of $220^{\circ}$. Round to the nearest hundredth.
6. Determine the area of a sector of a circle that has a central angle of $\frac{3 \pi}{2}$, and a radius of 4 cm . State the exact value, and the approximate value to the nearest tenth.
7. The diameter of a Ferris wheel is 80 feet. If the Ferris wheel makes one revolution every 45 seconds, determine the linear velocity of a person riding in the Ferris wheel. Round to the nearest tenth.
