Find the area of a sector determined by a 135° angle in a circle of radius 10.

\[ 135^\circ = \frac{3\pi}{4} \]

\[ A = \frac{1}{2} r^2 \theta \]

\[ A = \frac{1}{2} (10)^2 \cdot \frac{3\pi}{4} \]

\[ A = 117.81 \]