MAT 00C, Fall 2015
Quiz 1

Write neatly, show all work and simplify your answers as much as possible. Unclear answers or answers with no work will receive no points.

1. (3 points) Convert $-\frac{7\pi}{12}$ radians to degrees.

\[
-\frac{7\pi}{12} \cdot \frac{180^\circ}{\pi} = -105^\circ
\]

2. (5 points) Find the length of arc on a circle of radius $r = 15$ inches intercepted by a central angle $\theta = 120^\circ$. Be sure to include units in your final answer.

\[
S = r\theta = 15\text{ in.} \cdot \frac{2\pi}{3} = \frac{10\pi \text{ in.}}{3}
\]