

**Math 160**

**Quiz 10**

**Name:** \_\_\_\_\_

**August 6, 2002**

**This quiz is worth 10 points. Show all work for credit.**

1. Find the central angle in radians if the arc length is  $5\pi$  and the radius is 15.
2. Convert  $25^\circ$  into radians (give an exact answer, not in decimals).
3. Find the reference angle of  $\frac{34\pi}{13}$  (give an exact answer, not in decimals).
4. If the area of a sector is 75% less than the area of a circle of radius 12, what is the central angle?