Arc Length and Circumference of Circles HW

Formula for arc length: $S = \frac{n}{360} \cdot C$ (C = circumference) or $S = \frac{n}{360} \cdot 2\pi r$ (when given radius) or $S = \frac{n}{360}\pi d$ (when given diameter) where: S – arc length r – radius of a circle n – degrees in a central angle

I can calculate the circumference AND an arc length of a circle. Shade in the given arc before calculating.

Find the arc length and circumference for each question. KEEP ALL ANSWERS IN TERMS OF PI.





7. Find the radius.



8. Find $m \square ABC$.



Find the arc length of the given arc below. Keep your answers in terms of pi.

