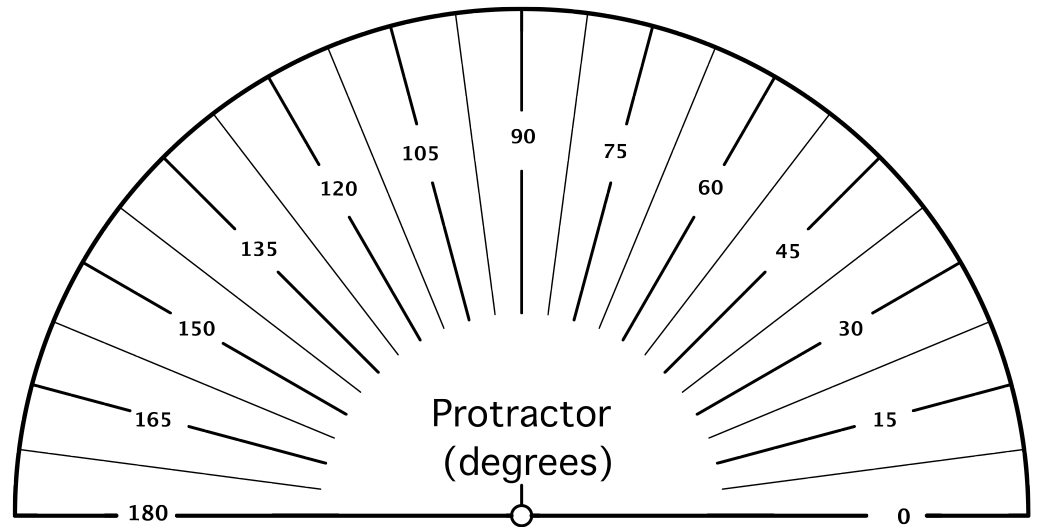


Making Sense of Radians

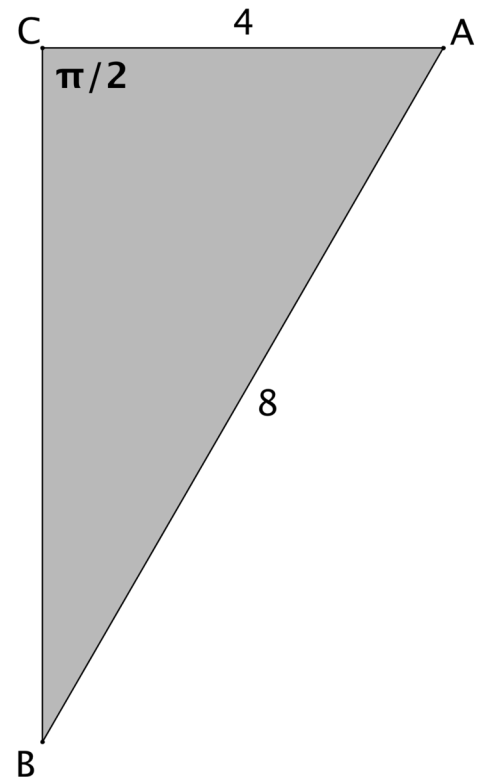
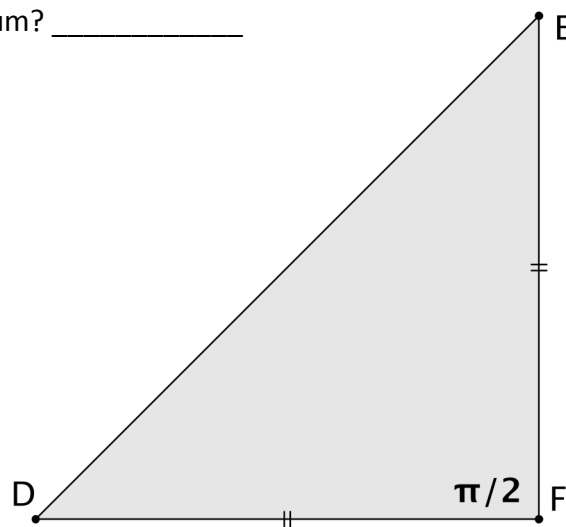
Jennifer Silverman www.proradian.net

Time for Pi

1. Compare both ProRadian Protractors to this degree-scaled protractor. Write down your observations; share them with a partner.



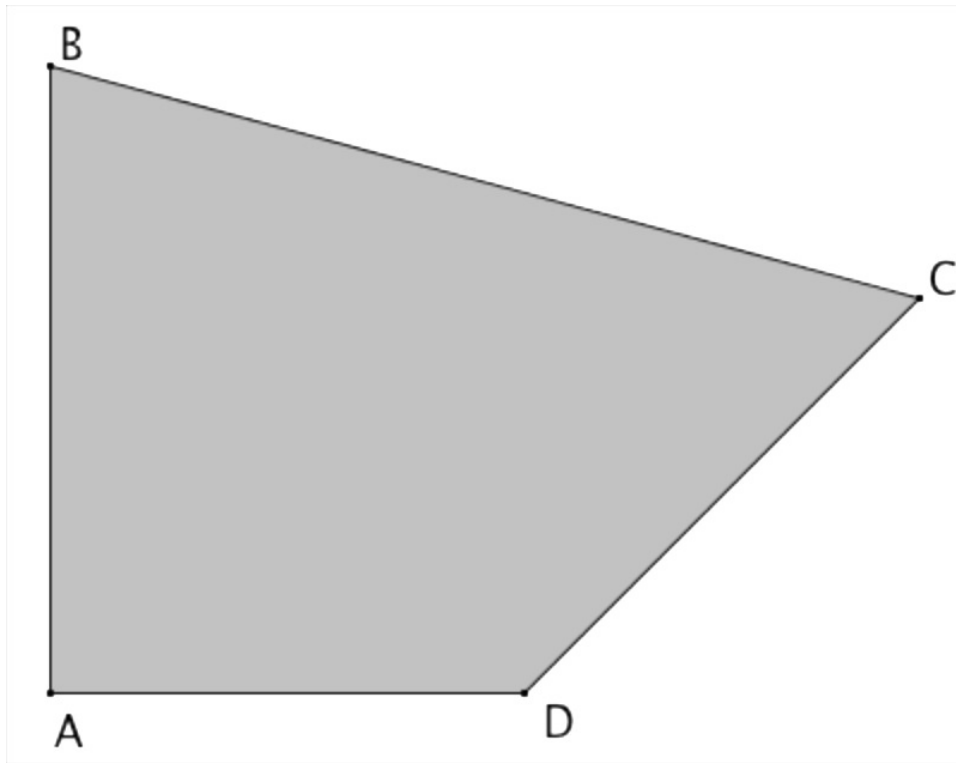
2. Find the missing angle measures and the sums, using ProRadian2. What's each sum? _____



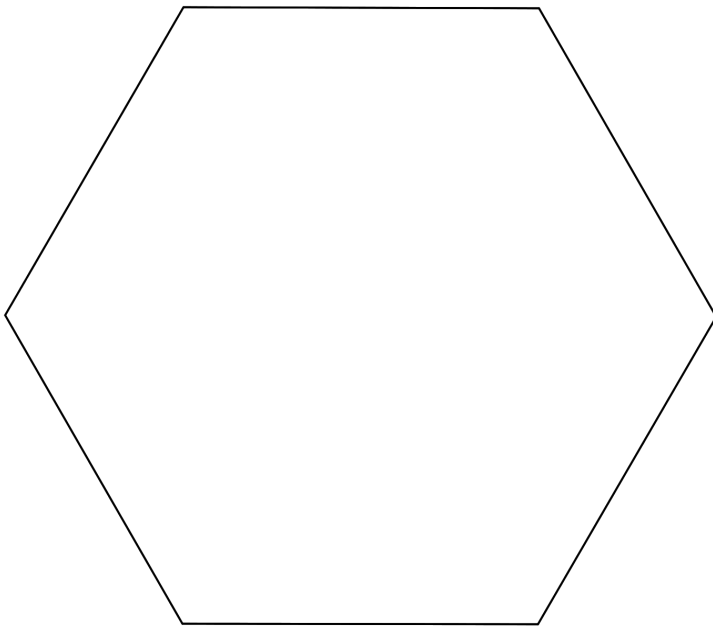
3. How are the units related?

Unit of measure	Sum of Angles in a Triangle	Sum of Central Angles in a Circle
degrees		
radians in decimal form (ProRadian1)		
radians in parts of π (ProRadian2)		

4. Using ProRadian2, measure each interior angle and find the angle sum for ABCD.



5. Measure the angles in this regular hexagon and complete the table in terms of π .



Regular Polygon	Sum of Int. Angles	One Interior Angle
triangle	π	
square		
pentagon		
hexagon		
octagon		
decagon		
n-gon		

6. Describe the patterns you see.