Geometry Notes 10.2 Find Arc Measures

	Vocabulary:
	Central Angle: an angle whose vertex is the Center of the circle.
	of the circle.
	Minor Arc: part of the single masses in Land I (1)
	Minor Arc: part of the circle measuring less than 180 minor arc AB
	notation: named by endpoints. AB
	Major Arc: part of the circle measuring between 180°-360°.
	notation: named by endpoints AND another point on major arc ADB
	the arc. (ADB)
	Semicircle: an arc with endpoints formed by a diameter.
	notation: named by endpoints AND another point on the arc.
	Name the arc shown in bold.
	1
	$\begin{array}{c c} A & 3 \\ \hline \end{array}$
	AB' ADB ADB ADB
	P
٦	minor orc by B (major arc b) C) B (Semi O)
1	
	Measuring Arcs
	Note: The measure of an arc is not the same as the length of an arc.
	R
	Measure of an entire circle = 360° Measure of a semicircle = 180°
	The Measure of a Minor Arc is the measure of its central angle. $RS_7 \overline{45^\circ}$
	The Measure of a Major Arc is the difference between 360° and
	the measure of the related minor arc. RTS = (315°)
	Arc Addition: The measure of an arc formed by two adjacent arcs is the sum of the measures of the
	two arcs. (Adjacent arcs share a common endpoint.)
	Measure of $ABC = m AB + m BC$
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	Congruent Circles: two circles with the same radius B
	Tong. Tem Shotes. Two chicles with the same radius
	Congruent Arcs: two arcs with the same measure and they are arcs of the \mathcal{C}
	same circle or of congruent circles
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	Decide if $\overrightarrow{AB} \cong \overrightarrow{CD}$. 4! No $\overrightarrow{AB} \not\cong \overrightarrow{CD}$ 5. 6.
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	radic Central 45 =

6. In \odot 0, \overline{MQ} and \overline{NR} are diameters. Find the indicated measure.

$$m\widehat{NP} = 80^{\circ}$$

$$m\widehat{QN} = 120^{\circ}$$

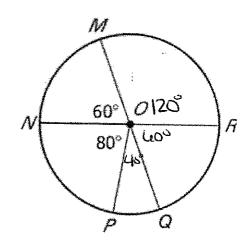
$$m\widehat{MPQ} = 180^{\circ}$$

$$m\widehat{MQN} = 300^{\circ}$$

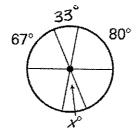
$$m\widehat{QR} = 100^{\circ}$$

$$m\widehat{PR} = 100^{\circ}$$

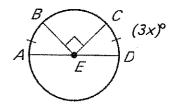
$$m\widehat{PMQ} = 320^{\circ}$$



7. Find the value of x.



8. Find the value of x.



$$3x + 3x + 90 = 180$$

$$6x = 90$$

$$x = 15$$