

- 2a) < P and < A are equal.
  - b) < P+ < A = 180°
- c) < P= 2<A or <A= 1/2<P
- d) < P and < A are equal.
- 3.
  a) <A=<B because they are both inscribed angles drawn from arc TS

  m= 42°
- b) PQ is a diameter <S = 90°

- 4a) Central Angle = 2(20°) = 40° b) Central Angle = 2(40°) = 80°

  - c) Central Angle = 2(80°) = 160°
- 5a) Inscribed Angle = 80° = 40°
- b) Inscribed Angle = 50° = 25°
- c) Inscribed Angle = 110° = 55°

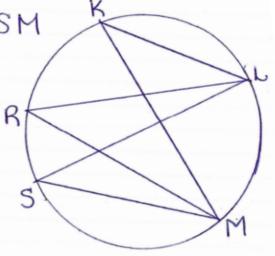
6.a) < BAD = < BCD => 90°

b) < LKM = < LRM = < LSM

< KLS = < KMS

<RLS = < RMS

< KLR = < KMR



$$7a) a^{\circ} = 2(40^{\circ})$$
  
 $a^{\circ} = 80^{\circ}$ 

- \* The measure of the central angle in a circle is twice the inscribed angle drawn from the same arc.
- b)  $6^{\circ} = 160^{\circ}$ = 80°

The measure of the inscribed angle in a circle is half of the central angle drawn from the same arc.

- 8a) x°= 40° y°= 50°
- \* Inscribed angles drawn from the same arc are equal.
- 0° = 90°
- \* Inscribed angles drawn from a diameter are 90°.

$$A_0$$
  $X_0 = 1800-1060$   $A_0 = 1800-820$ 

- \* Opposite angles in an inscribed quadrilateral are supplementary.
- b)  $p^{\circ} = 28^{\circ}$  $q^{\circ} = 38^{\circ}$
- \* Inscribed angles drawn from the same arc
- c) m°= 90° 2 m°= 45°
- \* The inscribed angle is half of the central angle drawn from the same arc.

- d) fo= 90° \* Inscribed angles drawn from a diameter are 90°
- e)  $b^{\circ} = 180^{\circ} 102^{\circ}$   $a^{\circ} = 180^{\circ} 76^{\circ}$  $b^{\circ} = 78^{\circ}$   $a^{\circ} = 104^{\circ}$
- \* Opposite angles in an inscribed quadrilateral are supplementary.
- f) 5°= 42°
- \* Inscribed angles drawn from the same arc are equal.

- $10.a) y^{\circ} = 2(30^{\circ})$ 
  - \* The central angle will be twice the inscribed angle when drawn from the same arc
  - b) Since <P=90°, (Inscribed angle drawn on a diameter)

    x°=180°-90°-40°

    x°= 50° (Angle sum of a triangle.)
  - c)  $\chi^{\circ} = 140^{\circ}$  $\chi^{\circ} = 70^{\circ}$
  - \* The inscribed angle will be half of the central angle when drawn from the same arc.

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d) \chi^{\circ} = 28^{\circ} ?* Inscribed angles drawn from the \gamma^{\circ} = 42^{\circ} } same arc will be equal.

K^{\circ} = 8^{\circ} = 180^{\circ} - 42^{\circ} - 28^{\circ} } Angle sum = 110^{\circ} for a triangle.

K^{\circ} = 110^{\circ} So = 110^{\circ}

e) p^{\circ} = 29^{\circ} } * Inscribed angles drawn from K^{\circ} = 48^{\circ} } the same arc will be equal.

q^{\circ} = 180^{\circ} - 29^{\circ} - 48^{\circ} q^{\circ} = 103^{\circ} (Angle sum of a triangle)
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\* Opposite angles in an inscribed quadrilateral are supplementary.

$$\chi^{\circ} = 180^{\circ} - 20^{\circ} - 134^{\circ}$$
  
 $\chi^{\circ} = 26^{\circ}$  (Angle sum of a triangle)