Quiz Review Circles

1. The quadrilateral is inscribed in the circle with m<A = 7x+2, m<B= 5y+6, m<C = 3x-4, and m<D= 3y+5.

Solve for x and y. Find all 4 angles. You can have a decimal answer.

A

B

C

D

x = \_\_\_\_\_\_\_\_\_\_

y = \_\_\_\_\_\_\_\_\_\_

Find all 4 Angles.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **1b.Find the measure of the hihighlighted arc.** | **81******P | **1c.** | **111*********x*******P |  |

1c. Solve for x.

2. SOLVE FOR x. Show Work. Do all 3 problems.

 a. Solve for x. b. Solve for x. c. Solve for x.

41° x° 168°

30° x+4° 3 128

x°

94°

64°

 x 22.

 3A. m**∠F = 30**⁰. mDC=70. FIND mAB. 3 B. SAME DIAGRAM mDC=2X-15 mAB= x + 5. m**∠ F = 40**⁰.Solve for x

*NOT DRAWN TO SCALE*

A a D

2nd intercepThe Quiz scheduled for Wednesday will now on Friday.  Enjoy your time off.  Stay dry and safe.ted aarc

Aaa A

 F

 B C

**4. a. b. c.**

1

40o

130o

m∠1=\_\_\_

m∠2=\_\_\_\_

54o

150o

2

m∠3=\_\_\_

250o

3



5a) Isosceles triangle XYZ is inscribed in this circle.

*XY* ≅ *ZY*

*mYZ* =108°

What is the measure of ?



5b) In this diagram, segment QT is tangent to circle P at point T.

The measure of minor arc mST = 70º. What is m**?**

5c) Points R, S, T, and U lie on the circle. The measure of RU is represented by x.

What is the value of x?



6. Point of Tangency \_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_

Radius \_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_



Diameter \_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_

Chord \_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_

Secant \_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_

Tangent \_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_

Central Angle \_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_

Inscribed Angle \_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_

Minor Arc \_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_

Major Arc \_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_

Semicircle \_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_



7a. In circle O, the mPR is 72º. What is the measure of ?



7b. m . = 80º m∠BCE = 2x + 5. Solve for x.



7c. m = 3x - 10º m∠BCE = 4x - 6. Find m∠BCE