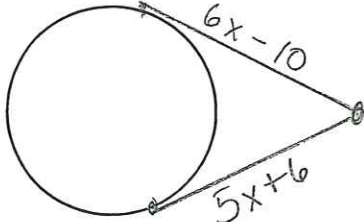
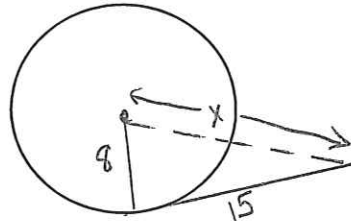
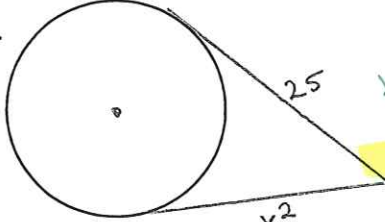


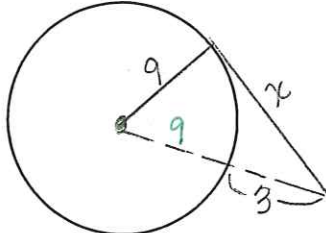
Geometry  
Unit 3: Circles Part 1

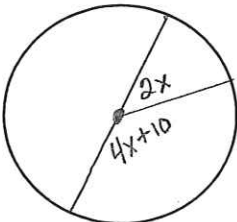
Name TEACHER

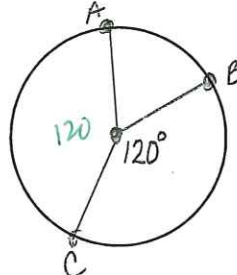
1.   $6x-10 = 5x+6$   
 $x=16$

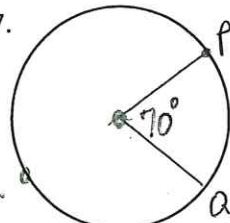
2.   $x=17$   
 $8^2 + 15^2 = x^2$   
 $289 = x^2$   
 $17 = x$

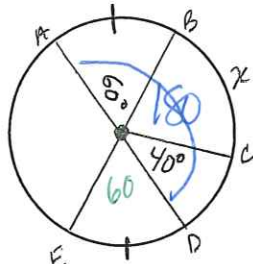
3.   $x^2 = 25$   
 $x=5$

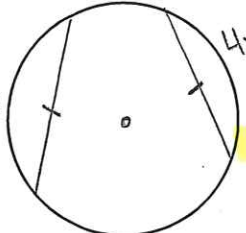
4.   $x=7.93$   
 $9^2 + x^2 = 12^2$   
 $81 + x^2 = 144$   
 $-81 \quad -81$   
 $x^2 = 63$   
 $x = 7.93$

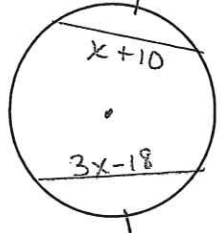
5.   $x=28.3$   
 $2x + 4x + 10 = 180$   
 $\frac{6x}{6} = \frac{170}{6} \quad x =$

6.   $\widehat{BC} \cong \widehat{CA}$   
Find  $m\widehat{AB} = 120^\circ$

7.   $m\widehat{PRQ} = 290$   
 $360 - 70 = 290$

8.   $x=80$   
 $y=120$

9.   $x=3$   
 $2x+13 = 4x+7$   
 $6 = 2x$   
 $3 = x$

10.   $x=14$   
 $x+10 = 3x-18$   
 $28 = 2x$   
 $14 = x$

11.  $x = \underline{45}$   
 $y = \underline{90}$   
 $z = \underline{90}$

12.  $8^2 + x^2 = 21^2$   
 $x^2 = 377$   
 $x = \underline{19.4}$

13.  $m\widehat{EB} = \underline{120}$   
 $m\widehat{BED} = \underline{240}$   
 $m\widehat{CDE} = \underline{170}$

14.  $m\widehat{AB} = 160^\circ$   
 $m\widehat{ADB} = \underline{200}$   
 $x = \underline{12.5}$   
 $10x - 15 = 8x + 10$   
 $2x = 25$   
 $x = 12.5$

15.  $AC = 8$   
 $AB = \underline{16}$   
 $CD = 5$   
 $CE = \underline{9.4 - 5 = 4.4}$   
 $8^2 + 5^2 = r^2$   
 $64 + 25 = r^2$   
 $89 = r^2$

16.  $m\angle ABD = 135^\circ$   
 Find  $m\angle ABC = \underline{100}$   
 $135 - 35$

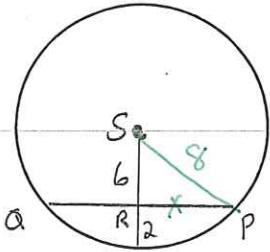
17.  $x = \underline{6}$   $y = \underline{-4}$   
 $2x - y = 16$   
 $6 + y = 2$   
 $x + y = 2$   
 $3x = 18$   
 $x = 6$

18.  $x = \underline{6}$   
 $x^2 - 6 = 30$   
 $x^2 = 36$   
 $x = 6$

19.  $6^2 + 11^2 = C^2$   
 $36 + 121 = C^2$   
 $157 = C^2$   
 $12.5$   
 $-6$   
 $x = \underline{16.5}$

20. skip

21.



Find RP  
and QP

$$RP = 5.3$$

$$QP = 10.6$$

$$6^2 + x^2 = 8^2$$

$$x^2 = 28$$

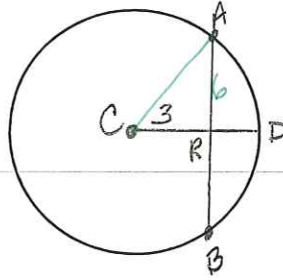
$$x = 5.3$$

FACTOR.

23.  $x^2 + 5x - 6$

$$(x + 6)(x - 1)$$

22.



$$AB = 12$$

$$AR = 6$$

$$AC = 6.71$$

$$3^2 + 6^2 = x^2$$

$$9 + 36$$

$$45 = x^2$$

$$x = 6.71$$

24.  $x^2 - 8x - 20$

$$(x - 10)(x + 2)$$

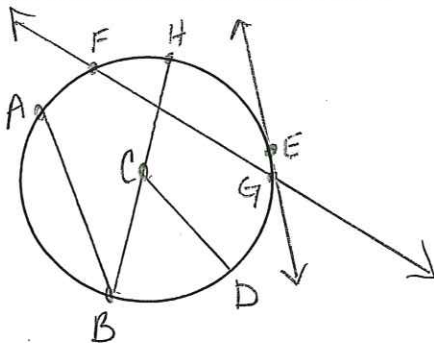
25.  $x^2 + 7x + 12$

$$(x + 4)(x + 3)$$

26.  $x^2 - 13x + 42$

$$(x - 6)(x - 7)$$

27. Name all the segments in the Circle.



$\overline{AB}$  is a chord

$\overline{BH}$  is a Diameter

$\overleftrightarrow{GE}$  is a tangent

$\overline{CD}$  is a radius

$\overleftrightarrow{FG}$  is a Secant

$\widehat{AB}$  is a minor arc.

$\widehat{CGB}$  is a major arc

$\widehat{BDH}$  is a Semicircle

