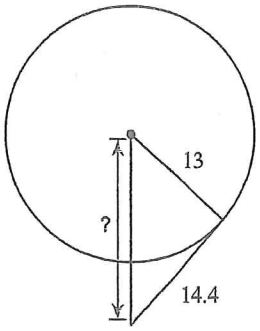
Geometry Name KEY

Tangent Mixed Practice SHOW All WORK or EXPLAIN Date 2019-20 Hour ____

Find the segment length indicated. Assume that lines which appear to be tangent are tangent.

1)

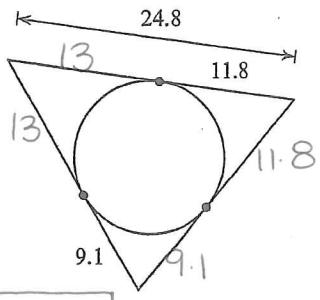


$13^2 + 14.4^2 = x^2$

A) 13.9 B) 12.7
C) 19.4 D) 15.1

Find the perimeter of each polygon. Assume that lines which appear to be tangent are tangent.

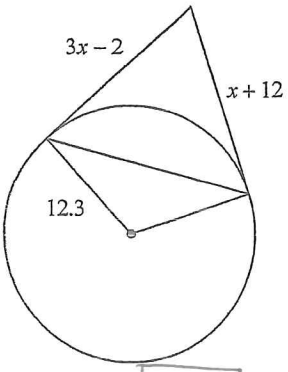
2)



A) 67.8 B) 50.9
C) 48.7 D) 94.9

Solve for x. Assume that lines which appear to be tangent are tangent.

3)



$3x - 2 = x + 12$

$2x = 14$

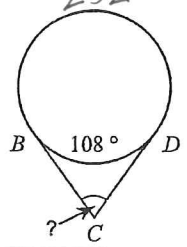
A) 2 B) 7
C) 10 D) 4

Find the measure of the arc or angle indicated. Assume that lines which appear tangent are tangent.

4) 252°

$\angle = \frac{1}{2}(\text{outer} - \text{inner})$

$\angle = \frac{1}{2}(252° - 108°)$



A) 72° B) 49°
C) 79° D) 74°

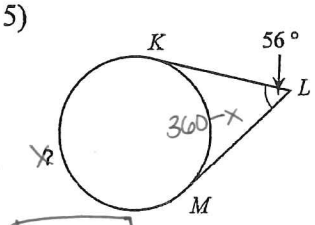
5)

$56 = \frac{1}{2}(2x - 360)$

$112 = 2x - 360$

$472 = 2x$

$236 = x$

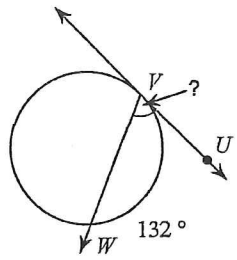


A) 236° B) 217°
C) 208° D) 180°

6)

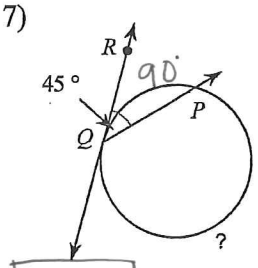
$\angle UVW = \frac{1}{2}(\overset{\frown}{WV})$

$= \frac{1}{2}(132)$



A) 78° B) 33°
C) 47° D) 66°

7) $360° - 90°$



A) 270° B) 225°
C) 240° D) 290°

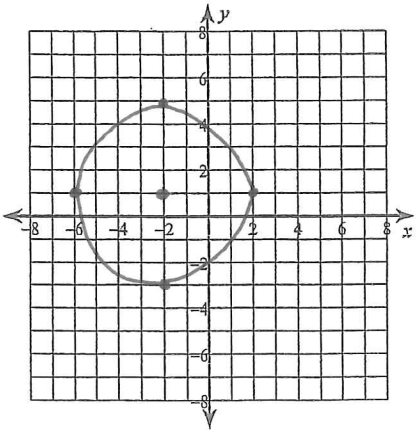
Geometry Name KEY

Equations of Circles Hwk #2

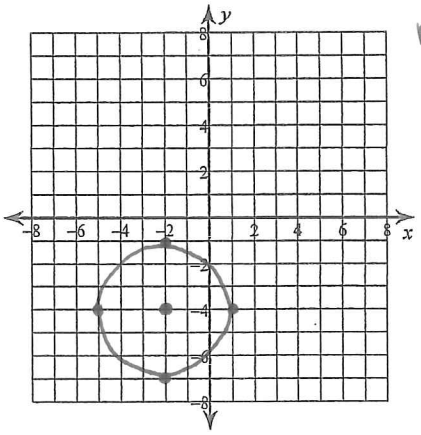
Date 2019-20 Hr

Identify the center and radius of each. Then sketch the graph.

1) $(x+2)^2+(y-1)^2=16$ center: $(-2,1)$ radius: 4



2) $(x+2)^2+(y+4)^2=9$ center: $(-2,-4)$ radius: 3



Identify the center and radius of each.

3) $(x+15)^2+(y-4)^2=9$

center: $(-15,4)$
radius: 3

4) $(x-7)^2+(y-3)^2=121$

center: $(7,3)$
radius: 11

Use the information provided to write the equation of each circle.

5) Center: $(10,-3)$
Radius: 7

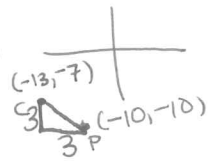
$(x-10)^2+(y+3)^2=49$

6) Center: $(-11,-15)$
Radius: 4

$(x+11)^2+(y+15)^2=16$

7) Center: $(-13,-7)$
Point on Circle: $(-10,-10)$

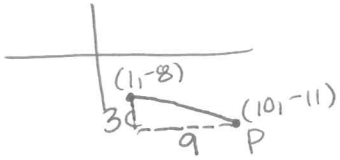
$3^2+3^2=r^2$
$3\sqrt{2}=r$



$(x+13)^2+(y+7)^2=18$

8) Center: $(1,-8)$
Point on Circle: $(10,-11)$

$3^2+9^2=r^2$
$3\sqrt{10}=r$

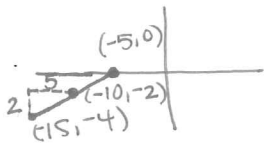


$(x-1)^2+(y+8)^2=90$

9) Ends of a diameter: $(-5,0)$ and $(-15,-4)$

center: $(-10,-2)$

$5^2+2^2=r^2$
$\sqrt{29}=r$

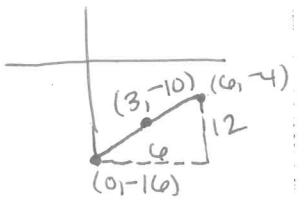


$(x+10)^2+(y+2)^2=29$

10) Ends of a diameter: $(6,-4)$ and $(0,-16)$

center: $(3,-10)$

$6^2+12^2=r^2$
$\sqrt{180}=r$
$6\sqrt{5}=r$



$(x-3)^2+(y+10)^2=180$