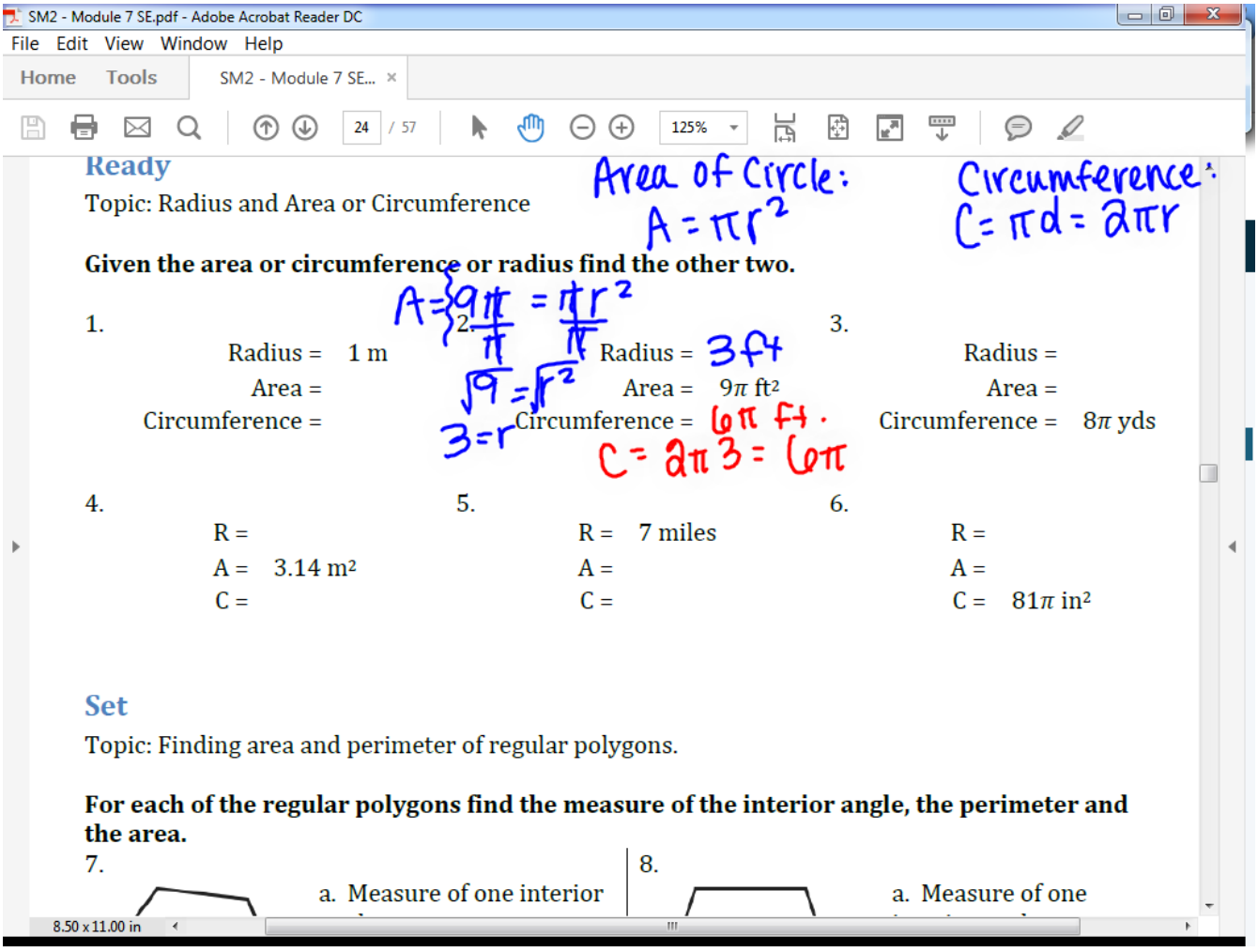
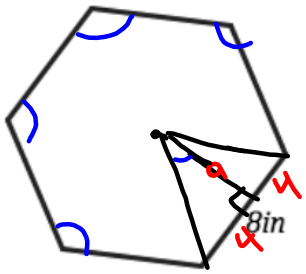
Questions on 7.4 HW?

Apr 8-8:30 AM


SM2 - Module 7 SE.pdf - Adobe Acrobat Reader DC
File Edit View Window Help
Home Tools
SM2 - Module 7 SE...
24 / 57
125%
Ready
Topic: Radius and Area or Circumference
Area of Circle: A = πr²
Circumference: C = πd = 2πr
Given the area or circumference or radius find the other two.
1.
Radius = 1 m
Area =
Circumference =
2.
A = 9π = πr²
π π
√9 = √r²
3 = r
Radius = 3ft
Area = 9π ft²
Circumference = 6π ft.
C = 2π3 = 6π
3.
Radius =
Area =
Circumference = 8π yds
4.
R =
A = 3.14 m²
C =
5.
R = 7 miles
A =
C =
6.
R =
A =
C = 81π in²
Set
Topic: Finding area and perimeter of regular polygons.
For each of the regular polygons find the measure of the interior angle, the perimeter and the area.
7.
a. Measure of one interior
8.
a. Measure of one
8.50 x 11.00 in

For each of the regular polygons find the measure of the ir the area.

7.

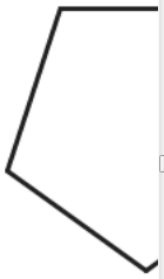


a. Measure of one interior angle: 120°

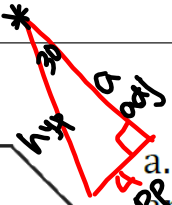
b. Perimeter: 6·8 = 48 in

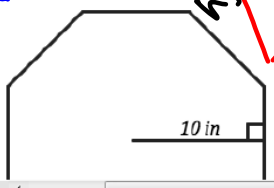
c. Area: 166.08 in²

8.



Central ∠: $\frac{360}{6} = 60°$





a. Measure of one interior angle:

b. Perimeter:

10. A regul side equal t

a. Measure

b. Perimet

8.50 x 11.00 in

a) Sum of interior ∠s in a polygon:

$180(n-2) = S$

One interior ∠:

$\frac{180(6-2)}{6} = \frac{180(4)}{6} = \frac{720}{6} = 120°$

c) Area of a regular polygon:

$A = \frac{1}{2} \cdot P \cdot a$

where P = perimeter and a = apothem

TOA

$a \cdot \tan 30 = \frac{4}{a} \cdot a$

$\frac{a \cdot \tan 30}{\tan 30} = \frac{4}{\tan 30}$

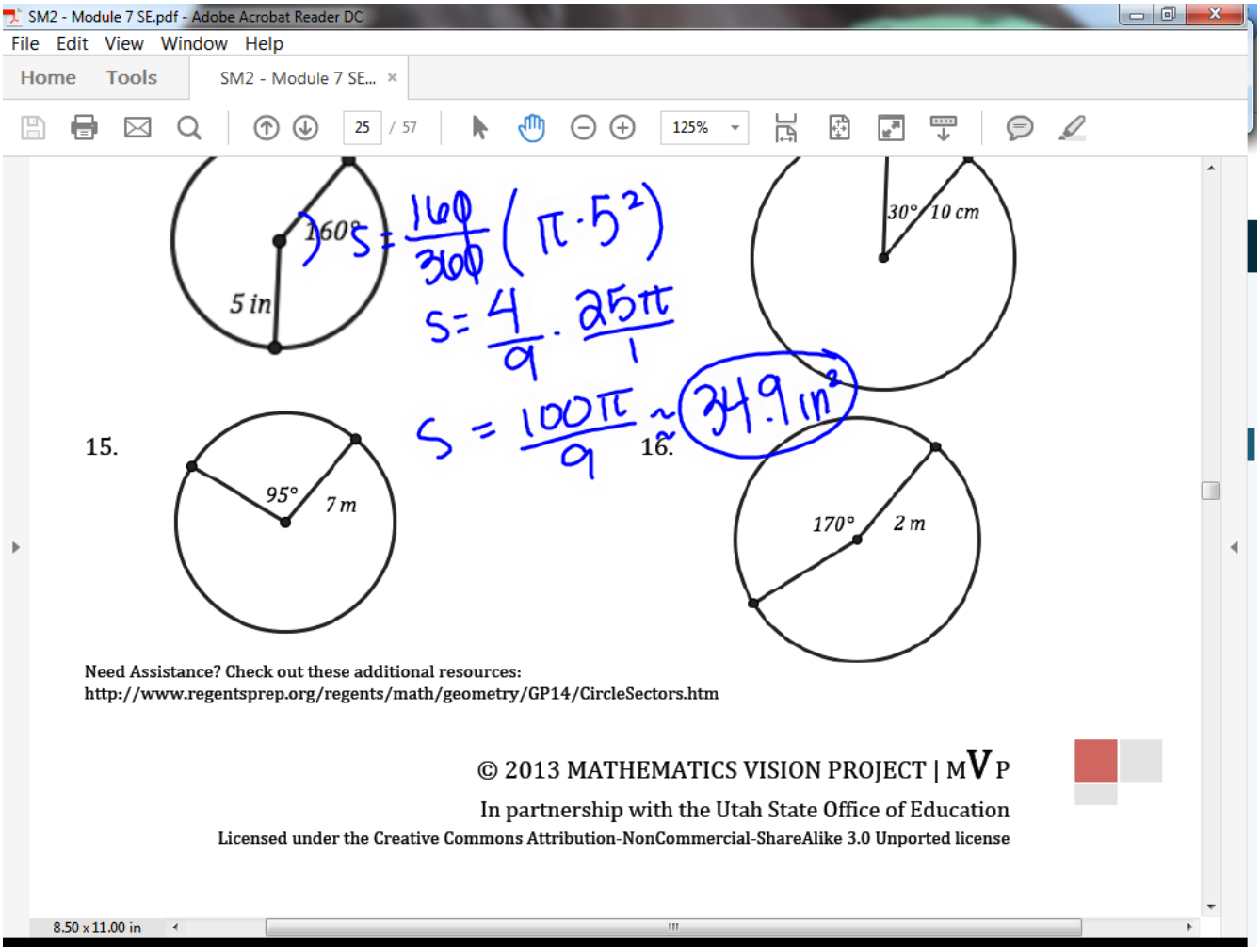
$a = \frac{4}{\tan 30}$

$a = 6.92$

$A = \frac{1}{2} \cdot P \cdot a$

$A = \frac{1}{2} \cdot 48 \cdot 6.92$

$A = 166.08 \text{ in}^2$



$S = \frac{160}{360}(\pi \cdot 5^2)$

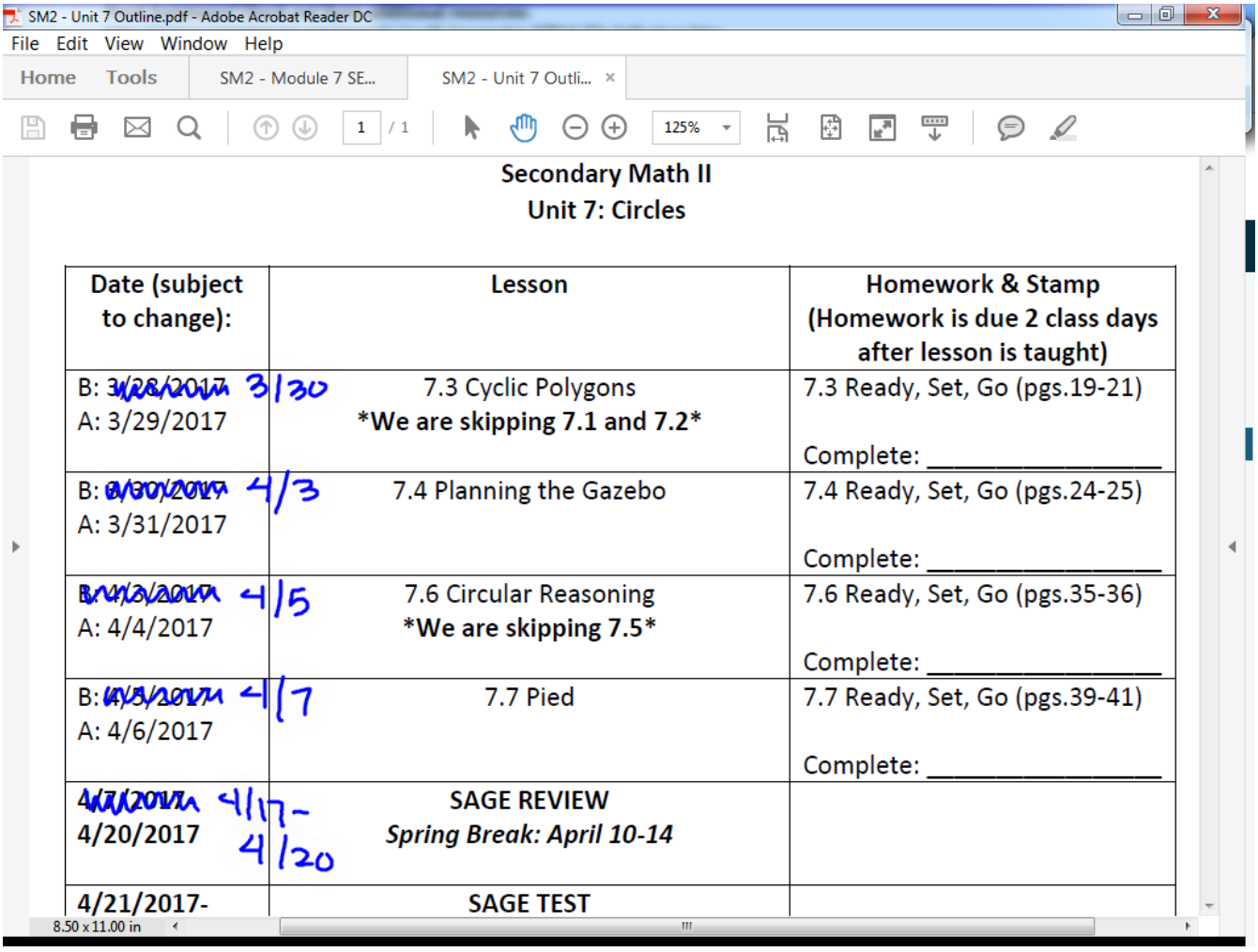
$S = \frac{4}{9} \cdot \frac{25\pi}{1}$

$S = \frac{100\pi}{9} \approx 34.9 \text{ in}^2$

Area of a sector of a circle:

$$S = \frac{\theta}{360^\circ}(\pi r^2)$$

where θ = angle in degrees


SM2 - Unit 7 Outline.pdf - Adobe Acrobat Reader DC

File Edit View Window Help

Home Tools SM2 - Module 7 SE... SM2 - Unit 7 Outli...

1 / 1 125%

Secondary Math II
Unit 7: Circles

Date (subject to change):	Lesson	Homework & Stamp (Homework is due 2 class days after lesson is taught)
B: ~~3/28/2017~~ 3/30 A: 3/29/2017	7.3 Cyclic Polygons ***We are skipping 7.1 and 7.2***	7.3 Ready, Set, Go (pgs.19-21) Complete: _____
B: ~~3/30/2017~~ 4/3 A: 3/31/2017	7.4 Planning the Gazebo	7.4 Ready, Set, Go (pgs.24-25) Complete: _____
B: ~~4/3/2017~~ 4/5 A: 4/4/2017	7.6 Circular Reasoning ***We are skipping 7.5***	7.6 Ready, Set, Go (pgs.35-36) Complete: _____
B: ~~4/5/2017~~ 4/7 A: 4/6/2017	7.7 Pied	7.7 Ready, Set, Go (pgs.39-41) Complete: _____
~~4/7/2017~~ 4/17- 4/20/2017 4/20	**SAGE REVIEW** ***Spring Break: April 10-14***	
4/21/2017-	**SAGE TEST**	

8.50 x 11.00 in

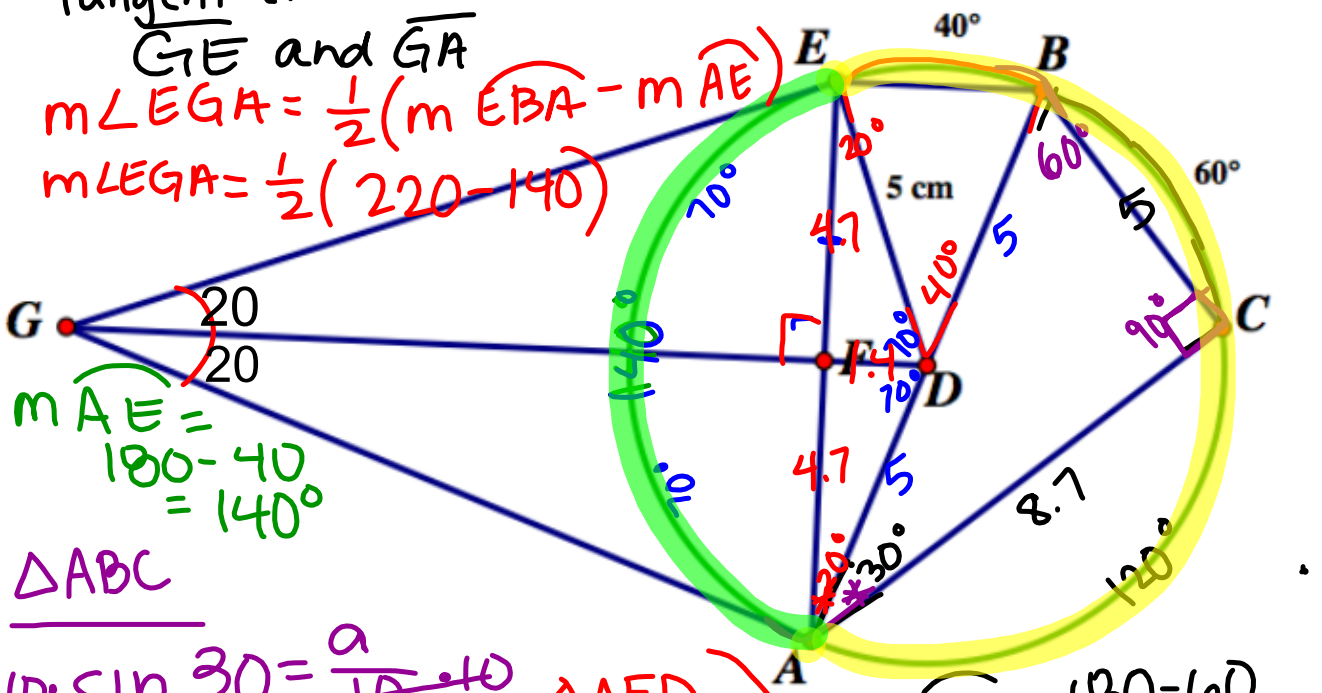
Apr 5-8:23 AM

7.6 Circular Reasoning

A Practice Understanding Task

The following problems will draw upon your knowledge of similarity, circle relationships and trigonometry.

In the following diagram the radius of $\odot D$ is 5 cm and F is the midpoint of $\overline{AE}$. The measures of arc EB and arc BC are given in the diagram. Find the measures of all other unmarked angles, arcs and segments.



Tangent lines to ⊙D

$\overline{GE}$ and $\overline{GA}$

$m\angle EGA = \frac{1}{2}(m\overset{\frown}{EBA} - m\overset{\frown}{AE})$

$m\angle EGA = \frac{1}{2}(220 - 140)$

$m\overset{\frown}{AE} = 180 - 40 = 140°$

$\triangle ABC$

$10 \cdot \sin 30 = \frac{a}{10} \cdot 10$

$10 \cdot \sin 30 = a$

$5 = a$

$10 \cdot \cos 30 = \frac{b}{10} \cdot 10$

$10 \cdot \cos 30 = b$

$8.7 = b$

$\triangle AFD$

CAH

$5 \cdot \cos 20 = \frac{y}{5} \cdot 5$

$5 \cdot \cos 20 = y$

$4.7 = y$

$m\overset{\frown}{AC} = 180 - 60 = 120°$

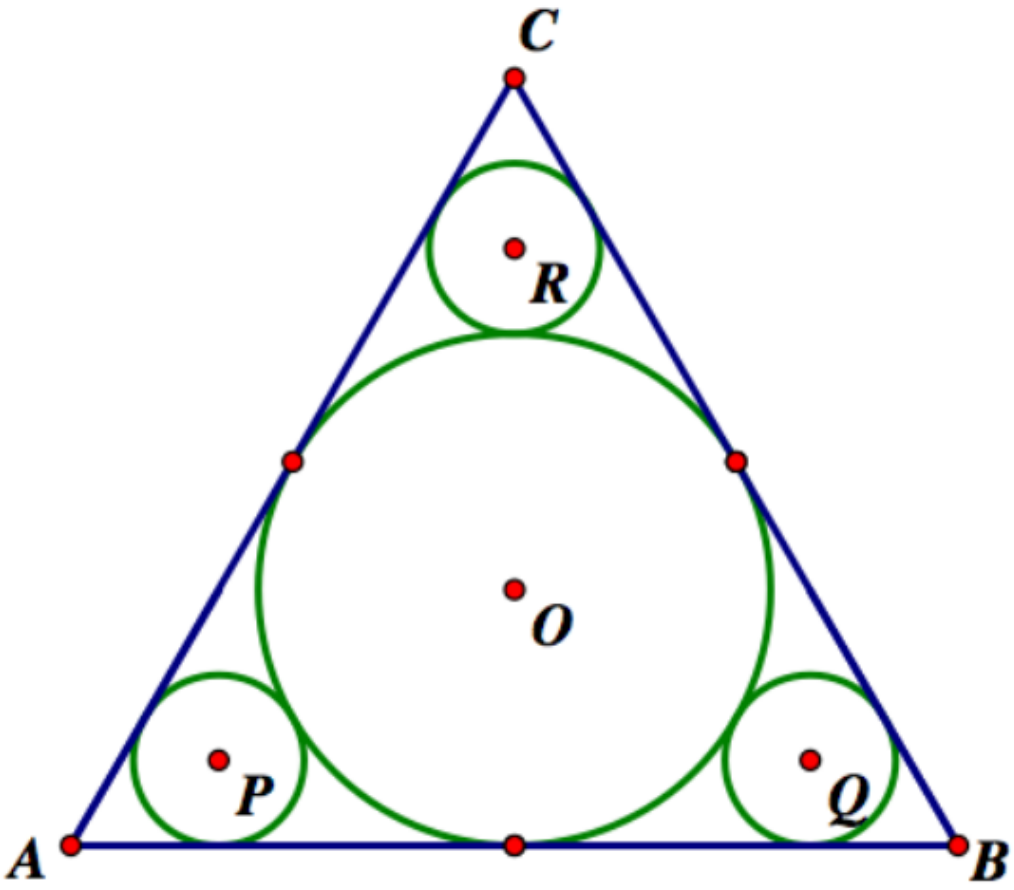
SOH

$5 \cdot \sin 20 = \frac{x}{5} \cdot 5$

$5 \cdot \sin 20 = x$

$1.4 = x$

In the diagram below ΔABC is equilateral. All circles are tangent to each other and to the sides of the equilateral triangle. The radius of the three smaller circles, $\odot P$, $\odot Q$ and $\odot R$, is 4 cm. The radius of $\odot O$ is not given. Find the circumference and area of each circle and the length of the sides of the equilateral triangle.



Apr 3-1:22 PM

Homework

Finish 7.6 "Ready, Set, Go"

Mar 28-9:36 AM