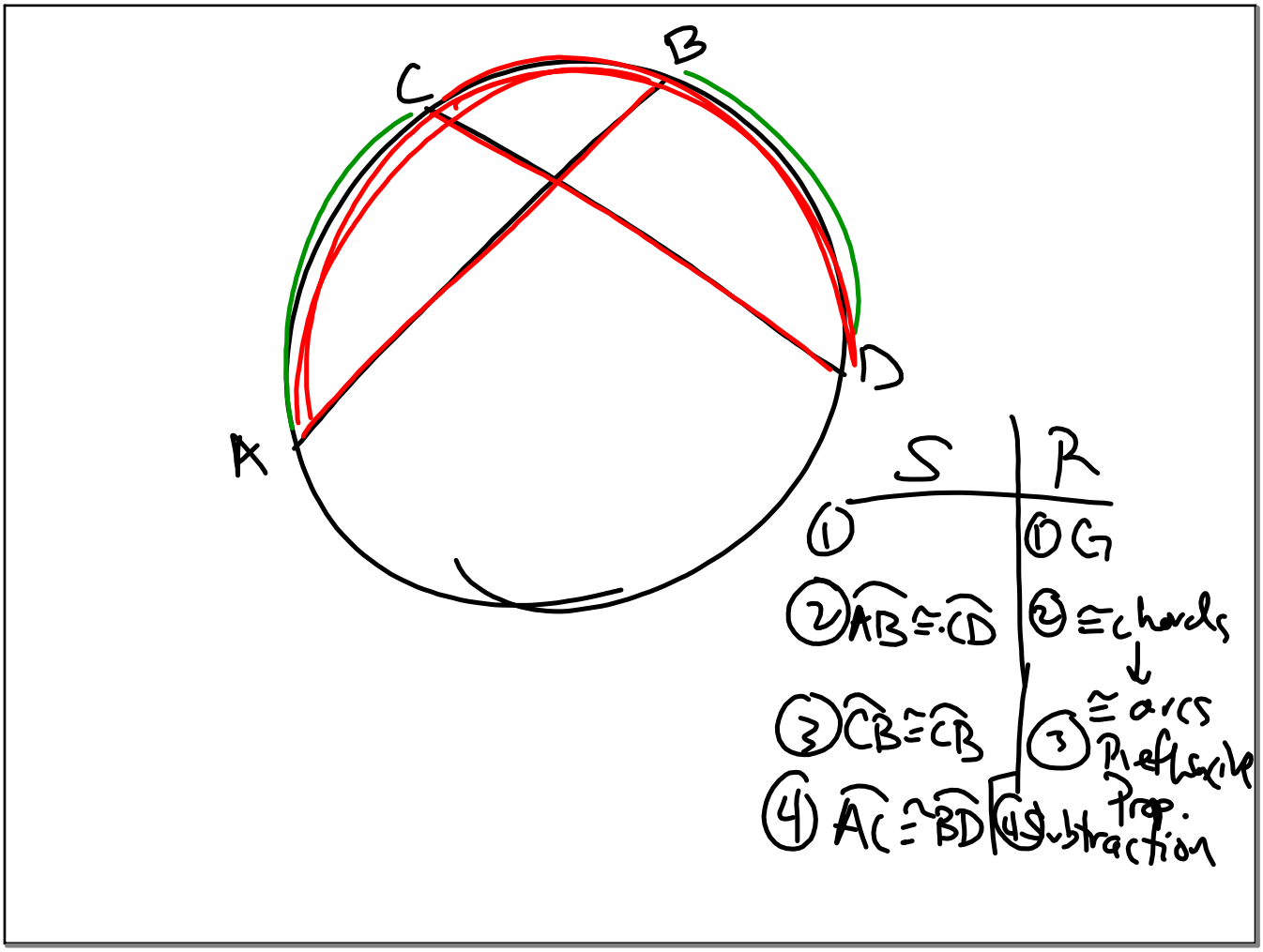
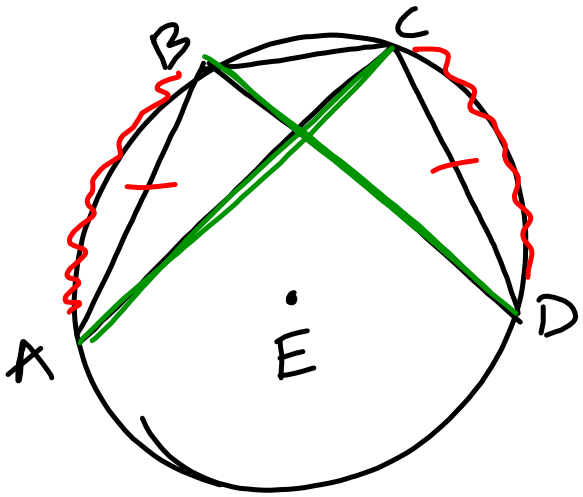
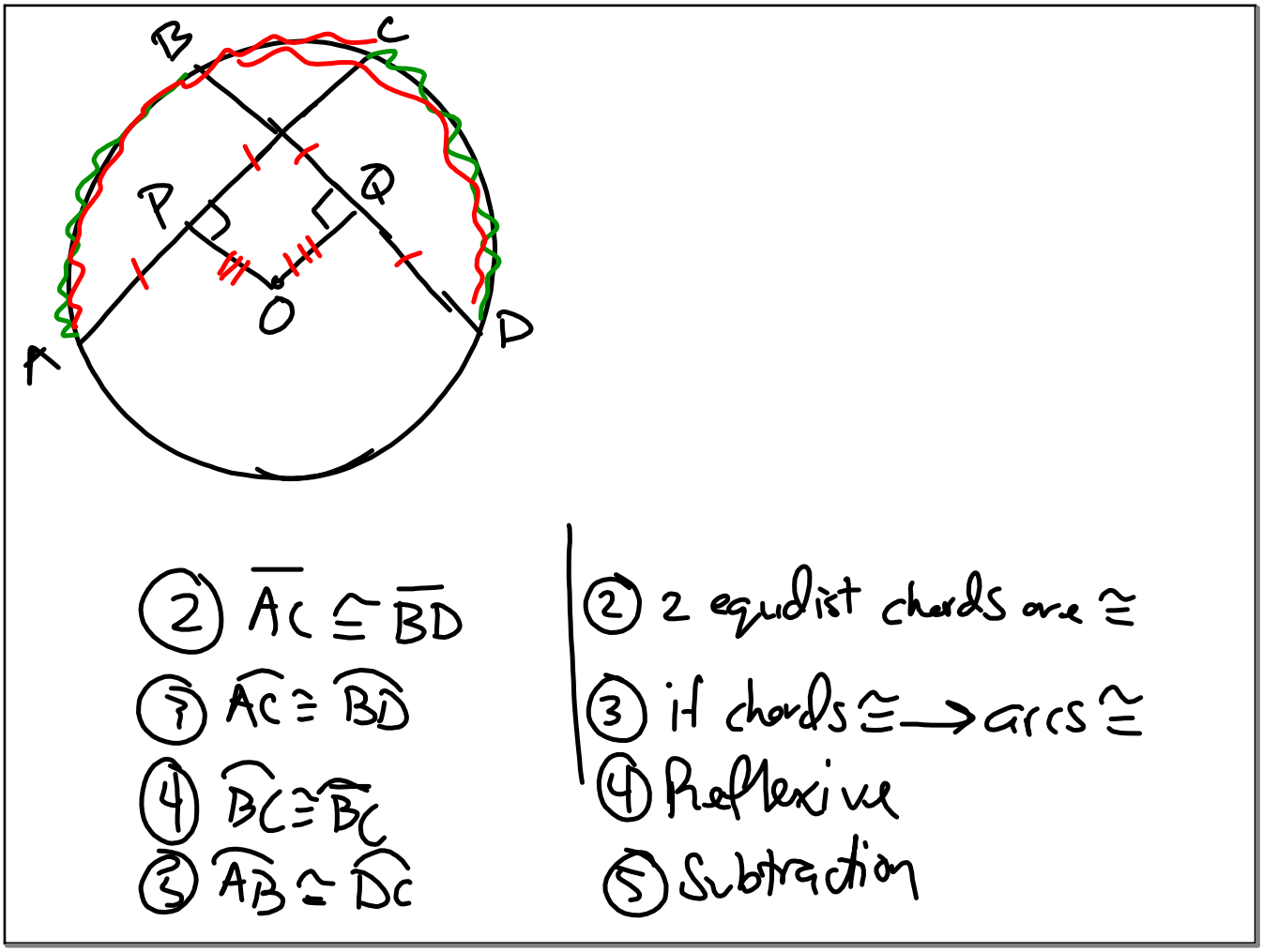
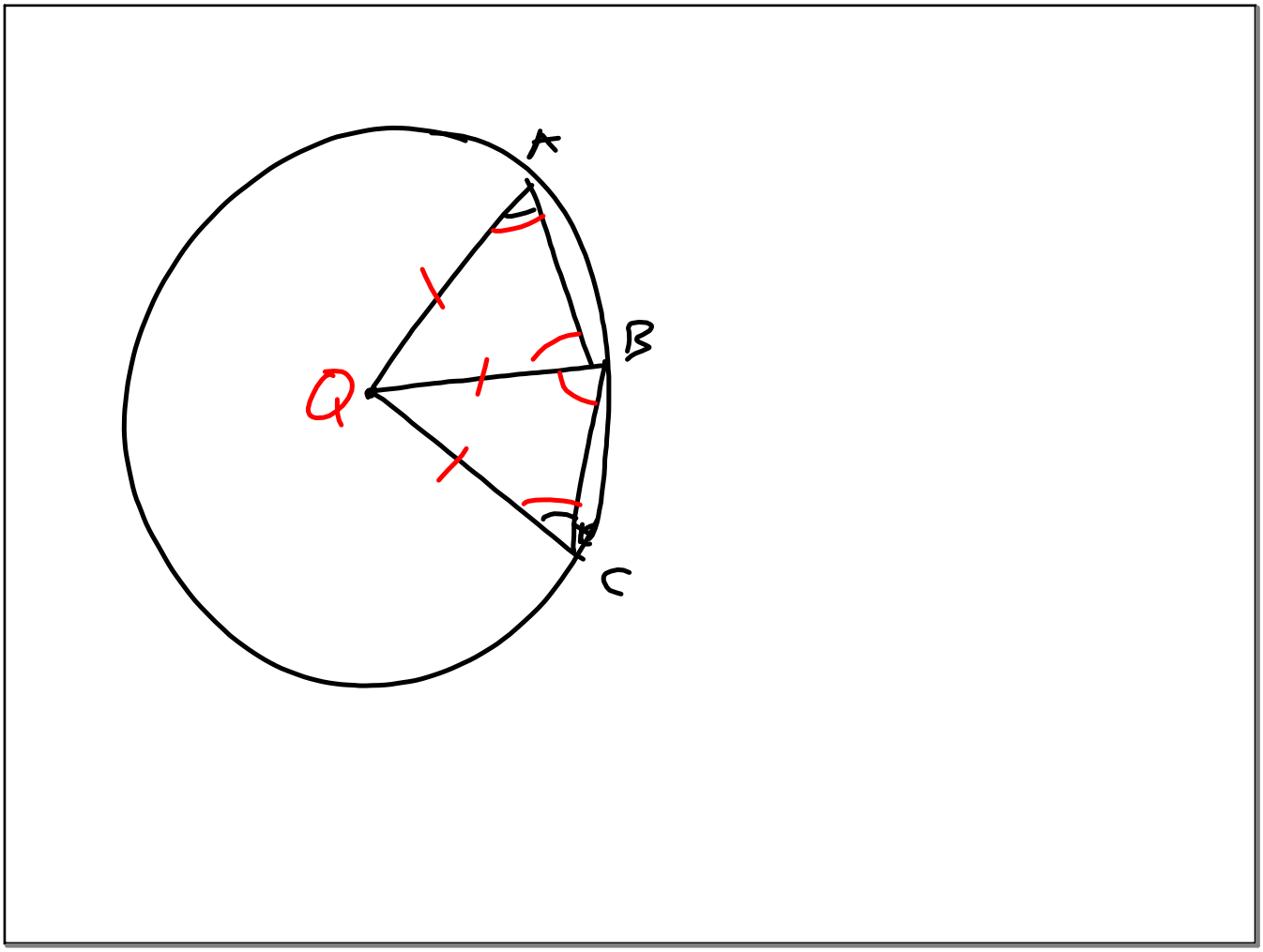

A
B
C
D
S
R
1
1 Given
2 AB ≅ CD
2 ≅ chords
3 CB ≅ CB
3 ≅ arcs
Reflexive Prop.
4 AC ≅ BD
4 Subtraction



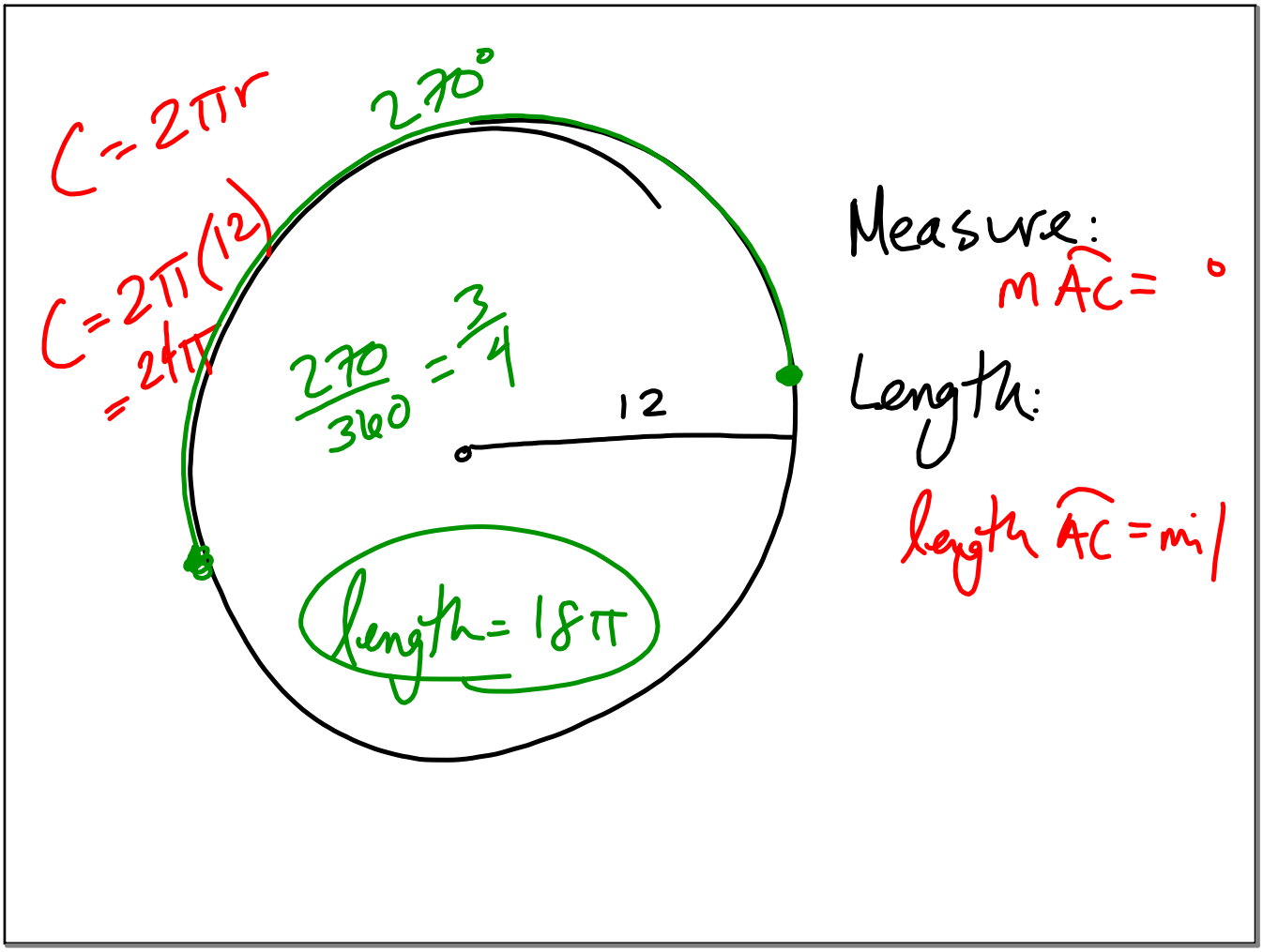
S	R
①	①
② $\overset{\frown}{AB} \cong \overset{\frown}{CD}$	② $\cong$ chords $\rightarrow \cong$ arcs
③ $\overline{BC} \cong \overline{BC}$	③ Reflexive
④ $\overline{AC} \cong \overline{BD}$	④ Addition Prop.
⑤ $\overline{AC} \cong \overline{BD}$	⑤ $\cong$ arcs $\rightarrow \cong$ chords



Apr 28-11:44 AM

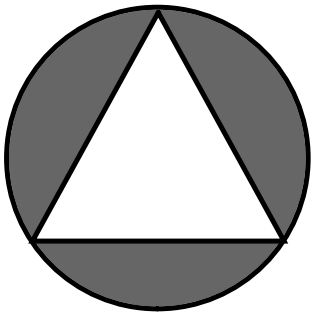


Apr 28-11:50 AM

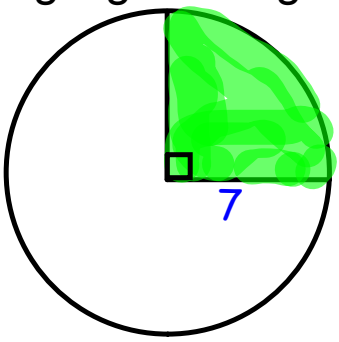


Apr 28-11:53 AM

1. Explain how to find the area of the shaded region

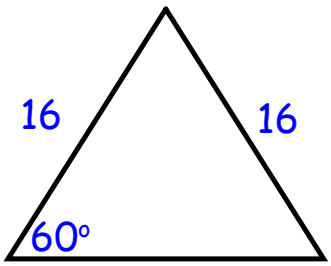


2. Find the area of the highlighted region

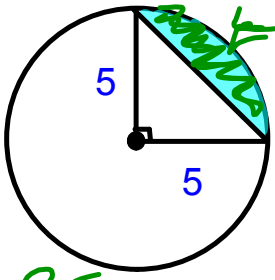


Find the area of each triangle

3.



4. Find the area of the highlighted region



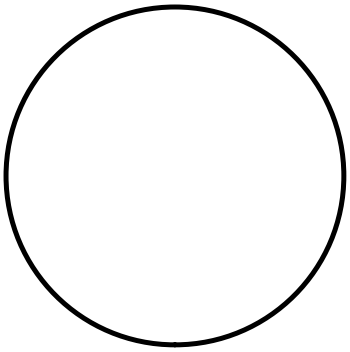
Segment

$A_{circle} = \frac{25\pi}{4}$

$A_{sector} = 6.25\pi$

$A_{\Delta} = \frac{1}{2}b \cdot h = \frac{1}{2}(5)(5) = 12.5$

$A_{segment} = 6.25\pi - 12.5$



Important Circle Formulas

$$A = \pi r^2 \qquad C = 2\pi r$$

$$\text{length of arc PQ} = \left(\frac{\text{m arcPQ}}{360}\right)2\pi r \quad \text{OR} \quad \frac{\text{length of arc } PQ}{2\pi r} = \frac{\text{m arc } PQ}{360}$$

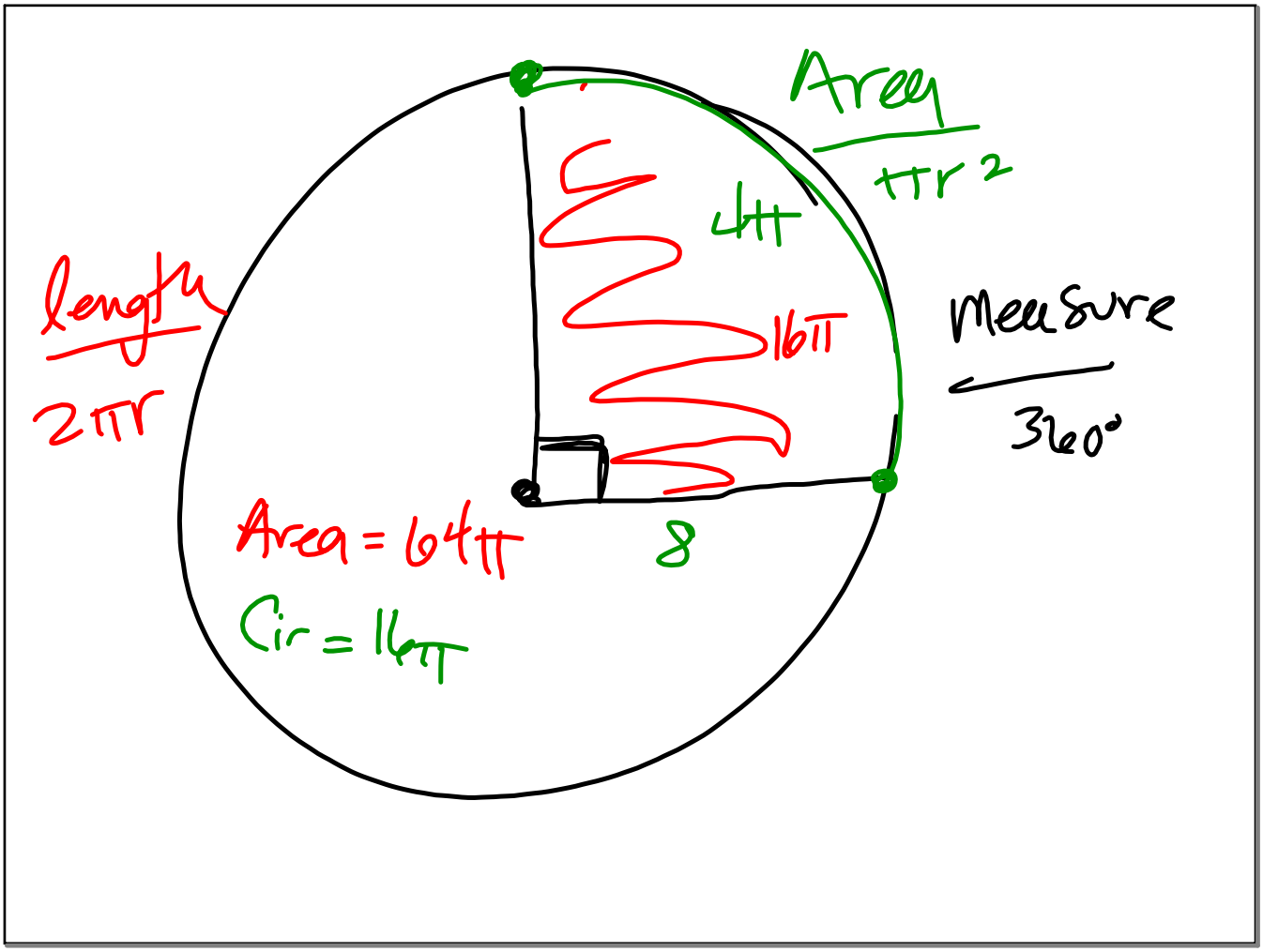
Good → Great

$$A_{sector} = \left(\frac{\text{measure of arc}}{360}\right)\pi r^2 \quad \text{OR} \quad \frac{A_{sector}}{\pi r^2} = \frac{\text{measure of arc}}{360}$$

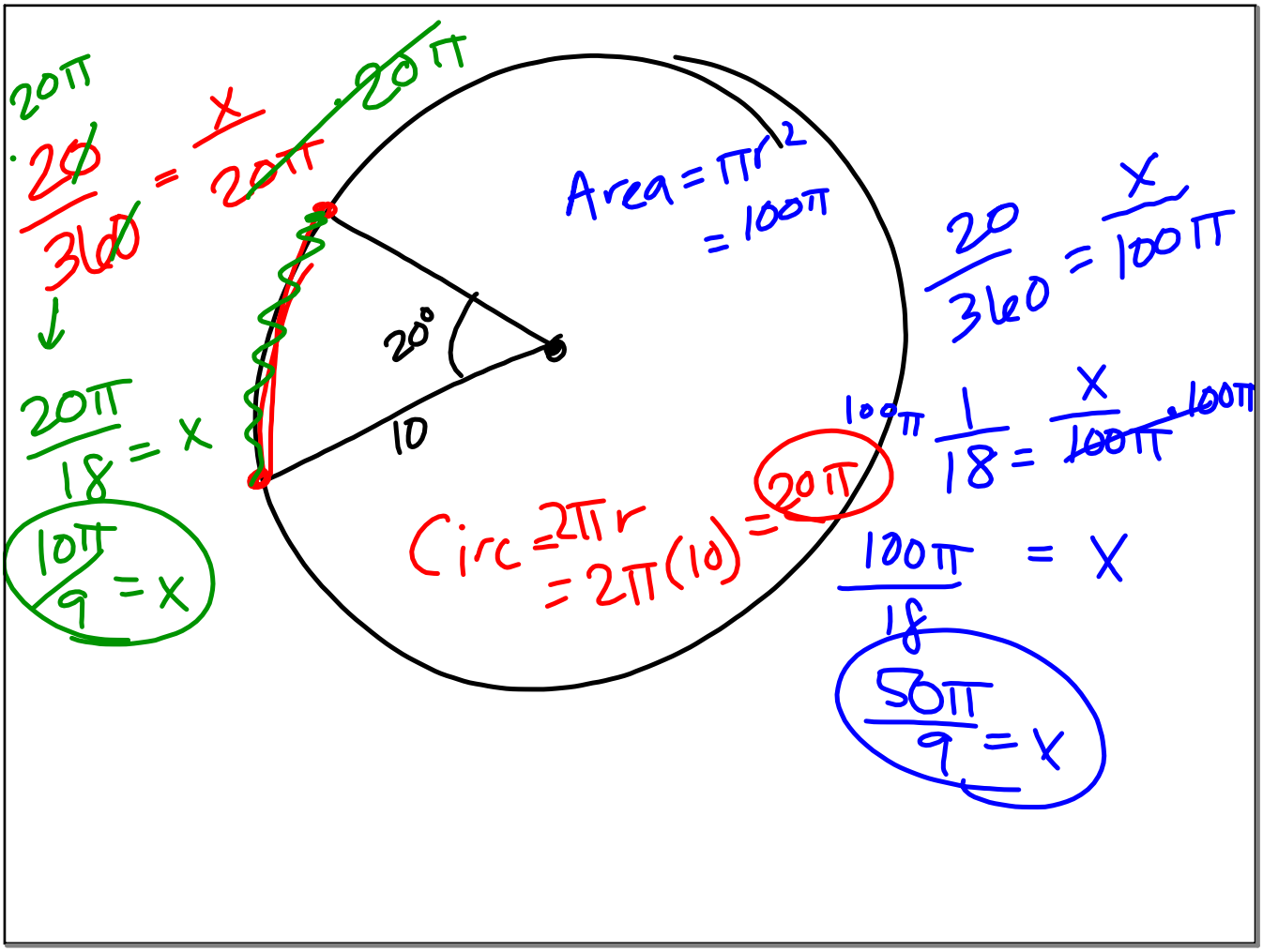
These should already be in your index cards...are they?????

A(segment) = A(sector) − A(△)

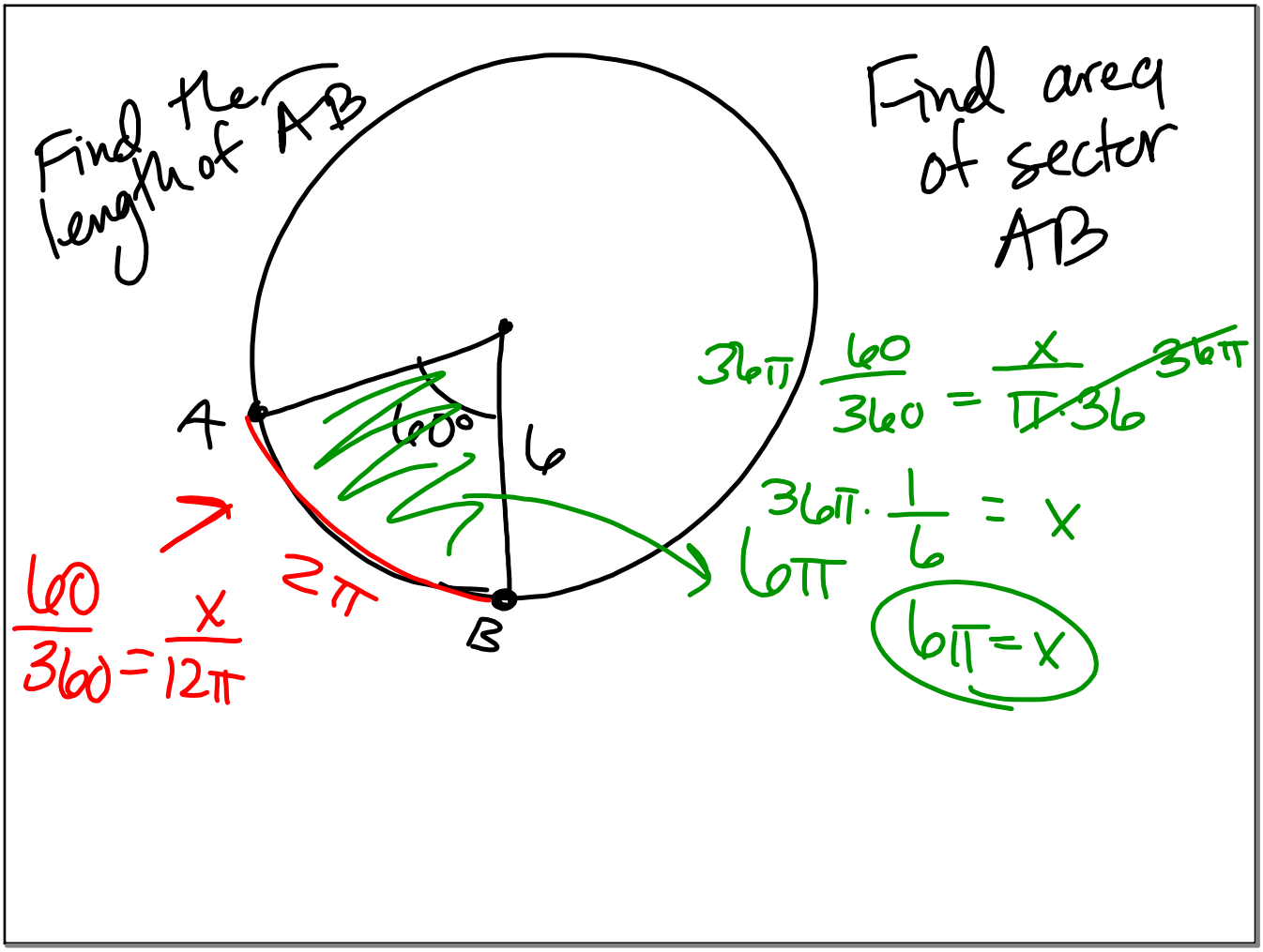
Apr 17-10:30 AM

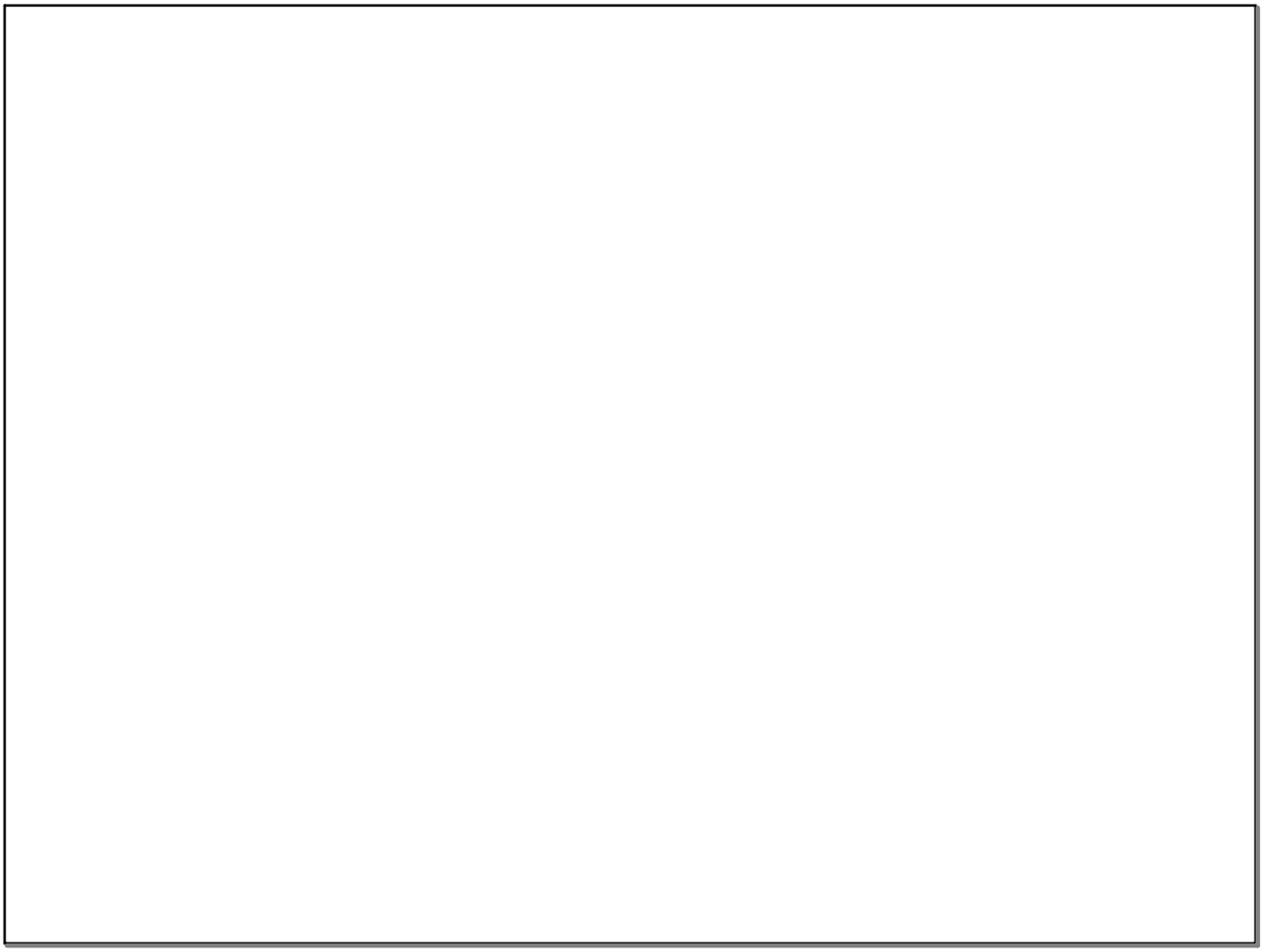


Apr 28-1:03 PM


20π
20/360 = x/20π
20π
20π/18 = x
10π/9 = x
20°
10
Area = πr²
= 100π
Circ = 2πr
= 2π(10) = 20π
20/360 = x/100π
100π 1/18 = x/100π · 100π
100π/18 = x
50π/9 = x

Apr 28-1:09 PM


Find the length of AB
Find area of sector AB
A
B
60°
6
60/360 = x/12π
2π
6π
36π 60/360 = x/π·36
36π · 1/6 = x
6π = x



Apr 28-1:25 PM

Stations

1) Go to your assigned station and work the problem on your own paper.
2) Go to the next station when you are instructed to do so and work that problem.
3) Continue until you complete all 15 problems.
4) Turn in your paper when finished and begin working on the Classwork.

Apr 18-9:33 AM

Classwork

- p. 501 #3, 4, 6-8, 10, 11
- p. 539 #5, 6, 10, 11, 13, 14, 16

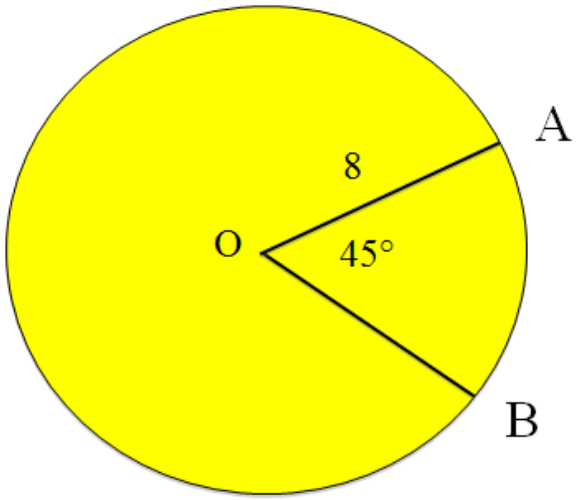
Homework

- Finish the classwork (if you didn't in class)
- Watch "Completing the Square" video and take notes!

Apr 17-10:38 AM

Example 1

Find the circumference of circle O and the length of arc AB



Apr 17-10:31 AM

Example 2

Given: m arc AB = 60°
radius = 12 cm

Find: the length of arc AB

Apr 23-8:34 AM

Example 3

The diameter of a bicycle wheel (including the tire) is 70 cm.

A) How far will the bike travel if the wheel rotates 1000 times? *(Approximate the answer in meters).*

Hint: Distance = (#of revolutions)(distance per revolution)

Apr 17-10:32 AM

Example 3

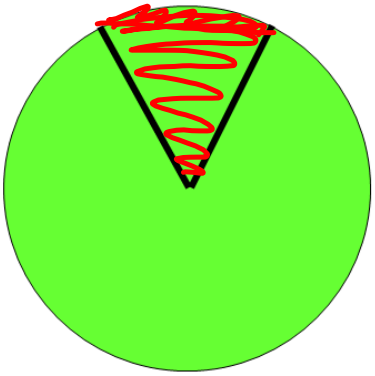
The diameter of a bicycle wheel (including the tire) is 70 cm.

B. How many revolutions will the wheel make if the bike travels 15 m? *(Approximate to the nearest tenth of a revolution)*

Apr 17-11:14 AM

Example 4

Find the area of a sector with a radius of 9 and a 60° arc.



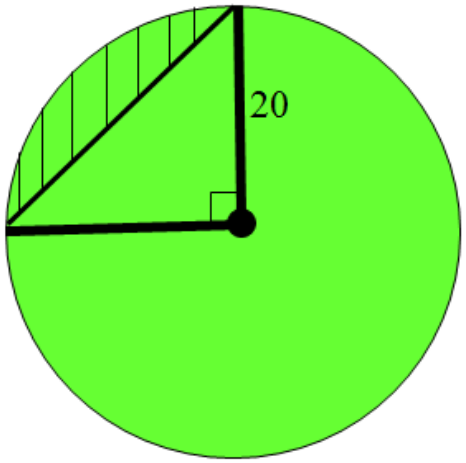
$$\frac{60}{360} = \frac{1}{6} = \frac{x}{81\pi}$$

$$x = 13.5\pi$$

Apr 17-10:36 AM

Example 5

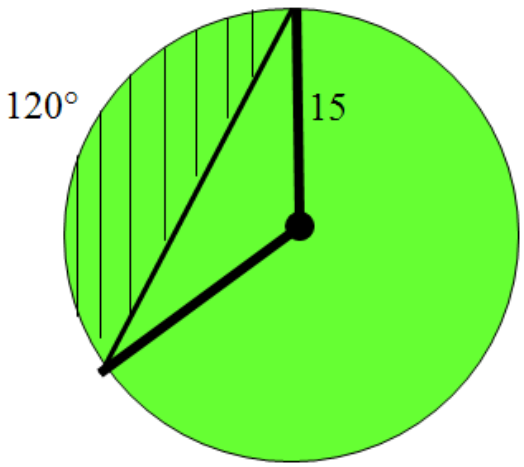
Find the area of the segment.



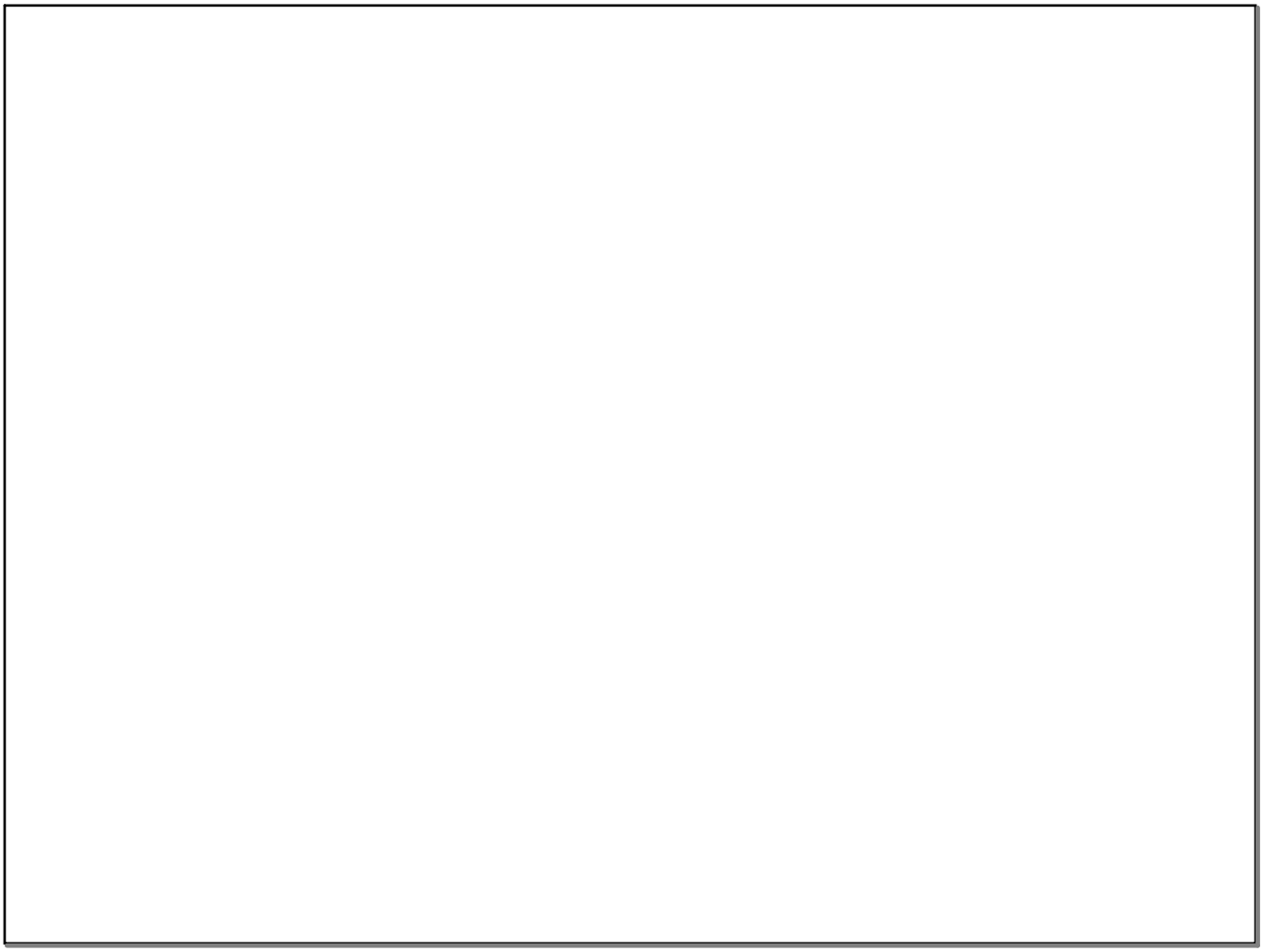
Apr 17-10:37 AM

Example 6

Find the area of the segment.



Apr 17-10:37 AM



Apr 27-4:34 PM