

Questions on 7.7 HW? We are reviewing for the SAGE test that will be 4/21-4/26.

\*\*Today we are working on #1-25 on our Secondary Math II - Review (it is SAGE/final review).

Secondary Math II Review Questions.pdf - Adobe Acrobat Reader DC

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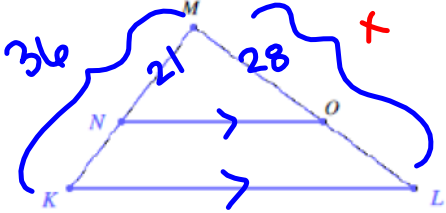
4. Draw the image of the following segment after a dilation centered at the origin with a scale factor of  $\frac{2}{3}$ .

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9. In  $\triangle KLM$ ,  $\overline{KL} \parallel \overline{NO}$ . Given that  $MK = 36$ ,  $MN = 21$ , and  $MO = 28$ , find  $ML$ .

$\triangle MNO \sim \triangle MKL$



$\frac{36}{21} = \frac{x}{28}$

$21x = 36(28)$

$x = 48$

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# 21: Volume of Pyramid

$$V = \frac{1}{3} \cdot B \cdot h$$

↑  
area  
of  
base

$$V = \frac{1}{3}(7.3)(7)$$

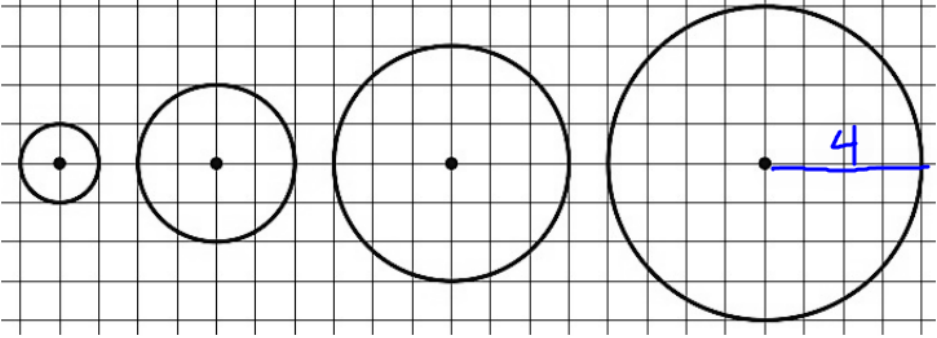
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1. There are four circles below each with a different radius. Determine the circumference and area of each and look for any patterns. What do you notice?



	Radius = 1	Radius = 2	Radius = 3	Radius = 4
Circumference				$2\pi 4 = 8\pi$
Area				$\pi 4^2 = 16\pi$

*A ratio is a comparison between two quantities. Trigonometric ratios of sine, cosine and tangent are ratios between sides in a right triangle. We can make ratios between many different quantities.*

**Write ratios for the indicated quantities below.**

2. The ratio of boys to girls in our math class.

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2. The ratio of boys to girls in our math class.
3. The ratio of girls to boys in your family.
4. The ratio bathrooms to bedrooms in your house.
5. The ratio of televisions to people that live in your house.  
*TVs : people or  $\frac{TVs}{people}$  or TVs to people*
6. The ratio of people in your house to cell phones in your house.

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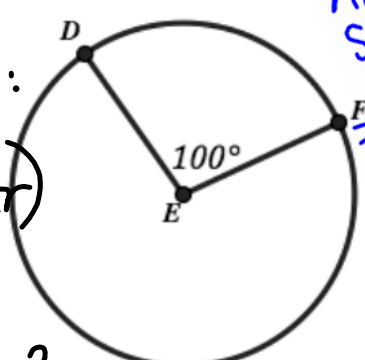
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11. The arc length of arc DF measures 30 m  
What is the area of the circle?

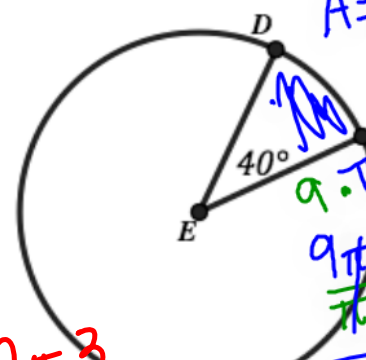
Arc Length:  
 $\frac{9}{360} (2\pi r)$



Area of Sector:  
 $\frac{9}{360} (\pi r^2)$

$A = \pi r^2$

12. The area of the small sector is  $\pi \text{ in}^2$   
What is the circumference of the circle?



$A = \frac{40}{360} (\pi r^2)$

$9 \cdot \pi = \frac{9}{9} \pi r^2$

$9\pi = \pi r^2$

$\frac{9}{\pi} = \frac{\pi r^2}{\pi}$

$9 = r^2$

$3 = r$

$C = 2\pi \cdot 3$

$C = 6\pi$

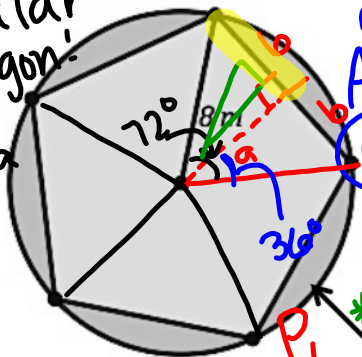
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Topic: Finding area and decomposing area.

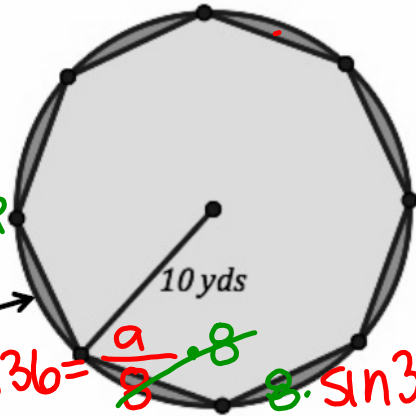
Find the area of the darkest shaded region in each figure below.

13. Area of Regular Polygon:  
 $A = \frac{1}{2} P a$



Area of circle:  
 $A = \pi r^2$   
 $A = 64\pi$

14.



SOH  
 CAH  
 TOA

Area of pentagon =  $\frac{1}{2} (5(4.7))(6.5)$

Area = **76.4 m<sup>2</sup>**

8 cos 36 =  $\frac{a}{8}$   
 $8 \cos 36 = a$   
 $6.5 = a$

8 sin 36 =  $\frac{b}{8}$   
 $8 \sin 36 = b$   
 $4.7 = b$

15.



16.



side leng:

$2(4.7)$   
**9.4**

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