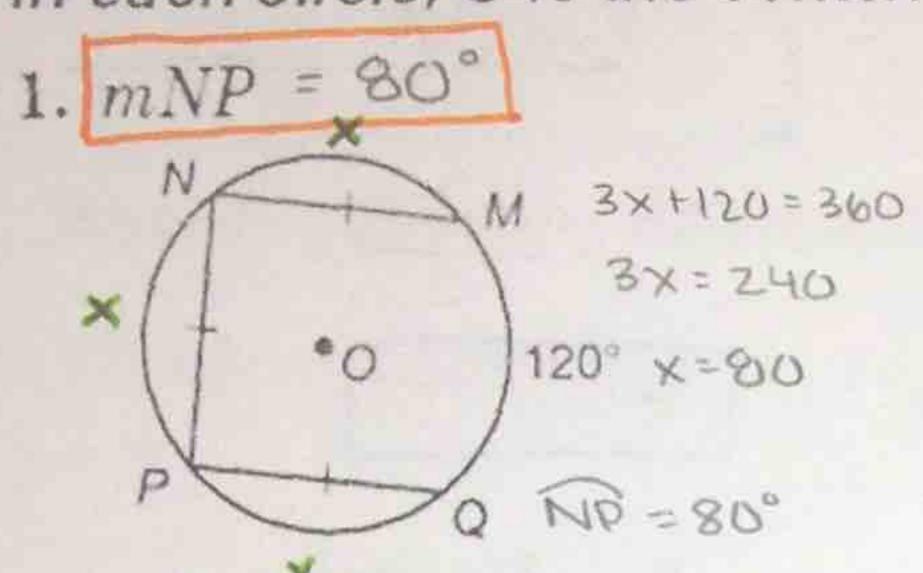
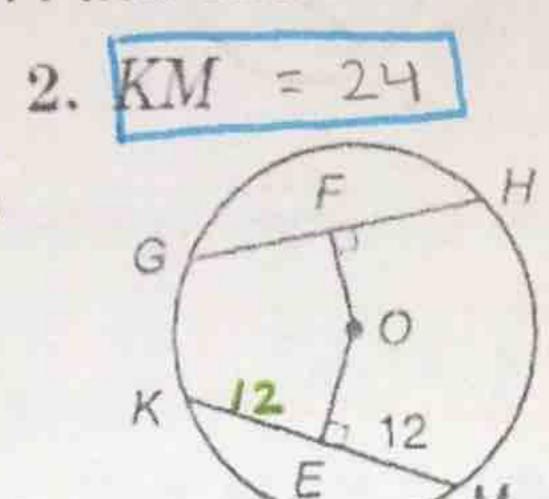
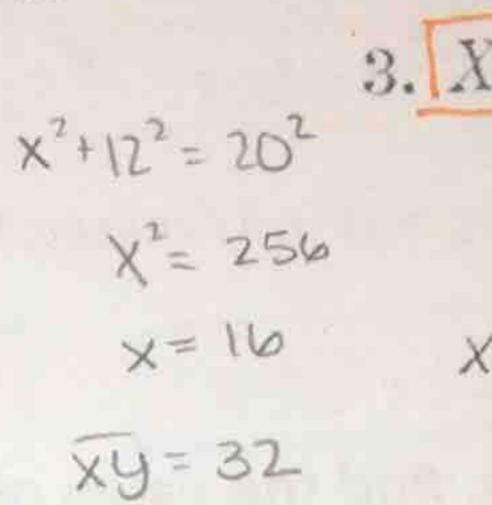
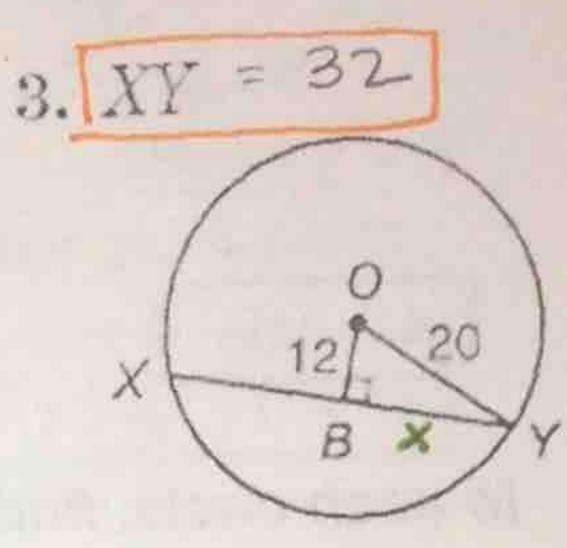
Geometry Part 2 Study Guide

In each circle, O is the center. Find each measure.

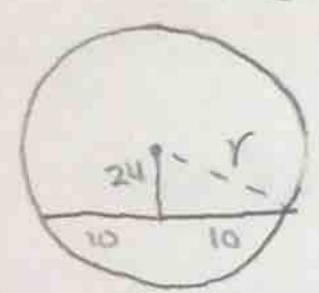








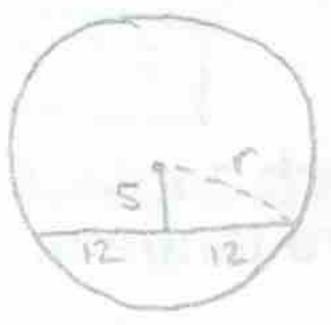
4. Suppose a chord is 20 inches long and is 24 inches from the center of the circle. Find the length of the radius.



$$10^2 + 24^2 = x^2$$

 $676 = x^2$
 $7 = 26$

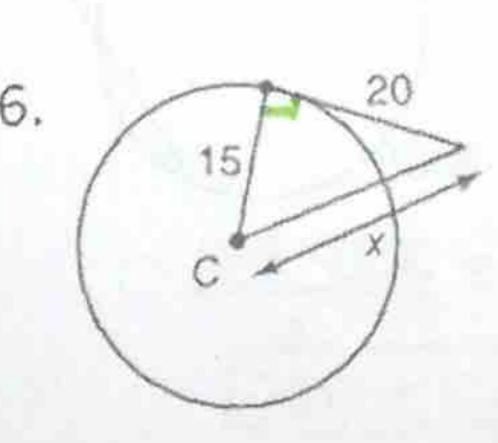
5. Suppose a chord of a circle is 5 inches from the center and is 24 inches long. Find the length of the radius.

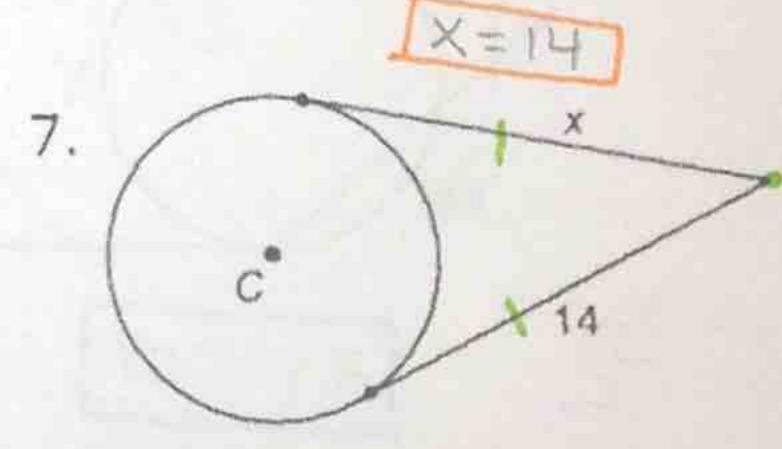


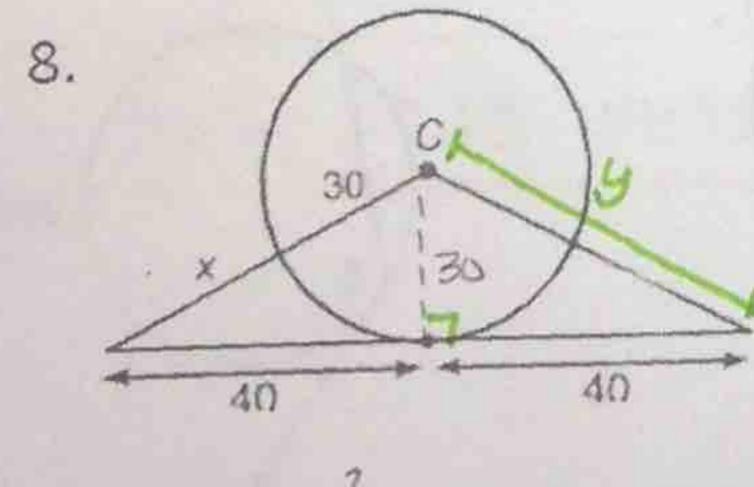
$$5^{2} + 12^{2} = 5^{2}$$

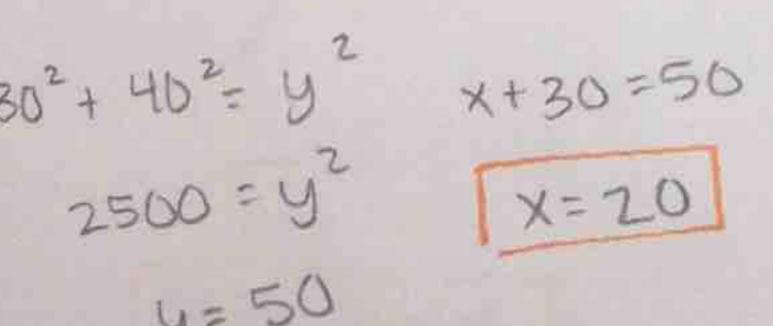
For each in circle C, find the value of x. Assume segments that appear to be tangent are tangent.

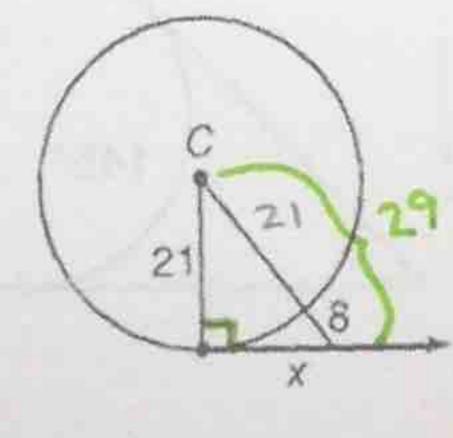
$$15^{2} + 20^{2} = X^{2}$$
 6.
 $60.$
 $15^{2} + 20^{2} = X^{3}$ 6.

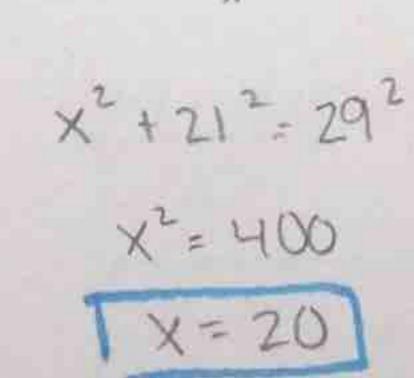


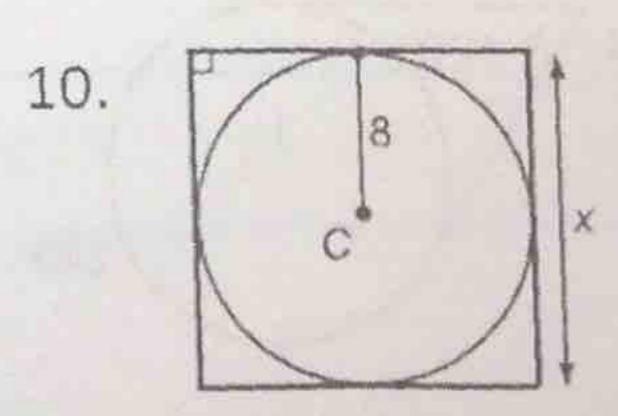


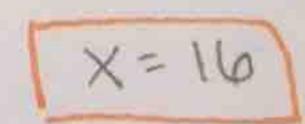






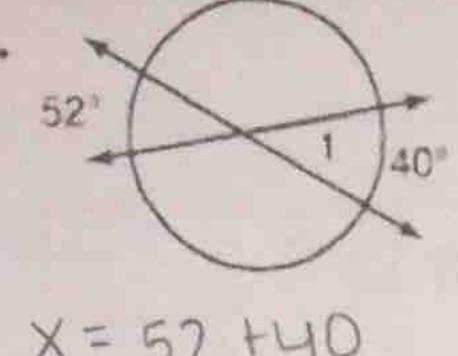




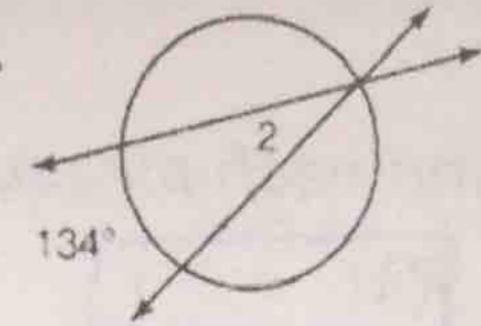


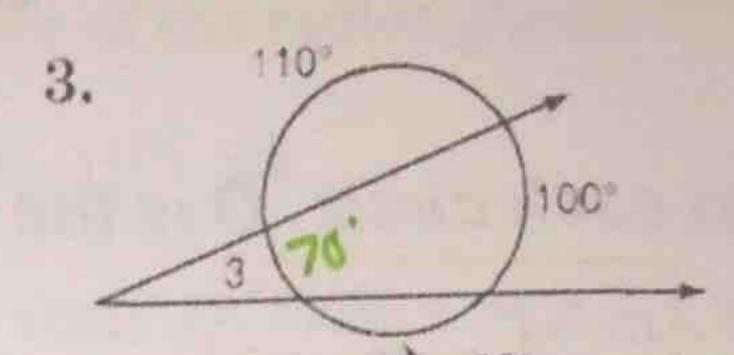
Find the measure of each numbered angle.

1.



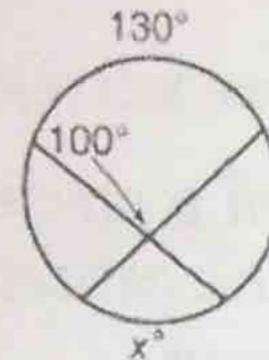
$$X = 52 + 40$$

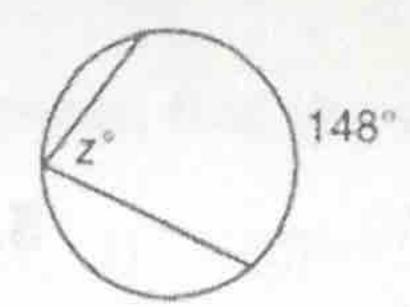


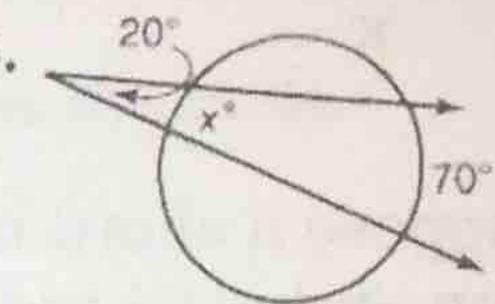


In each circle, find the value of x.

4.



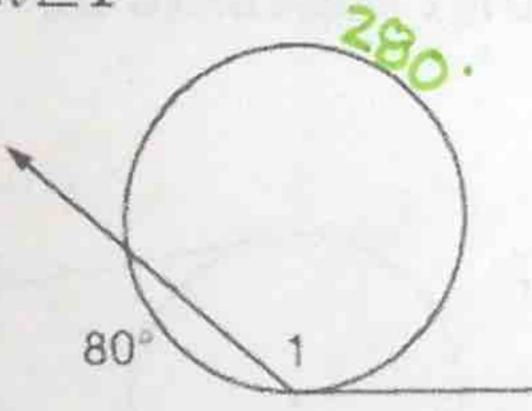




73=155-51

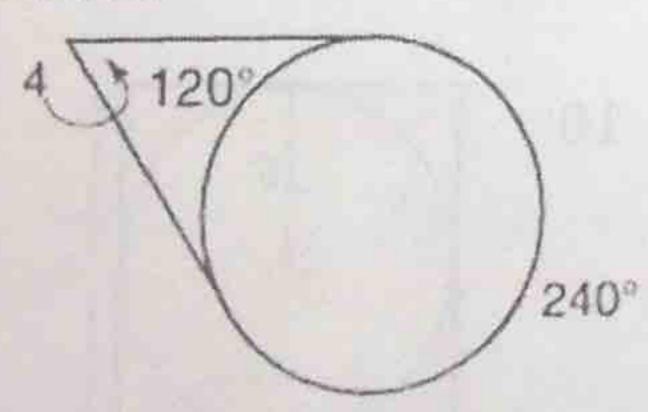
Find the measure of each angle. Assume segments that appear to be tangent are tangent.

 $1. m \angle 1$



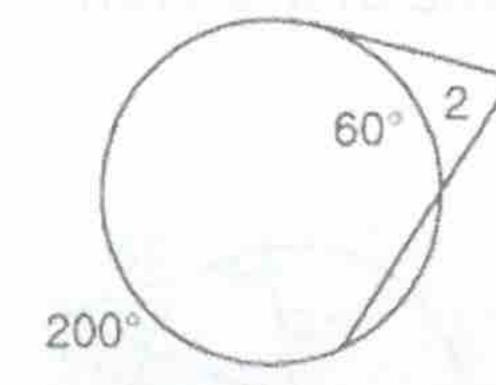
キ1= 2<u>80</u> 2

4. m 44



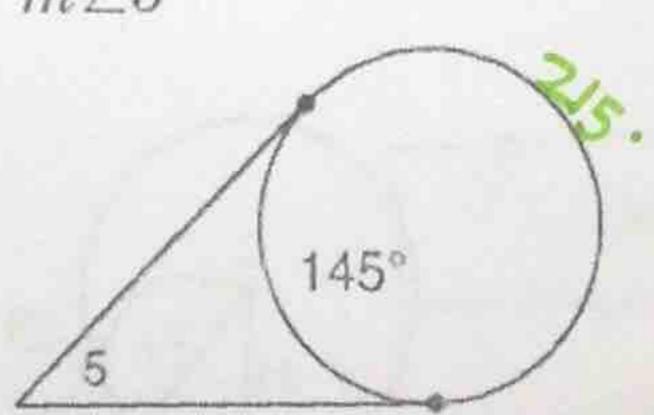
74 = 240-120

 $2. m \angle 2$



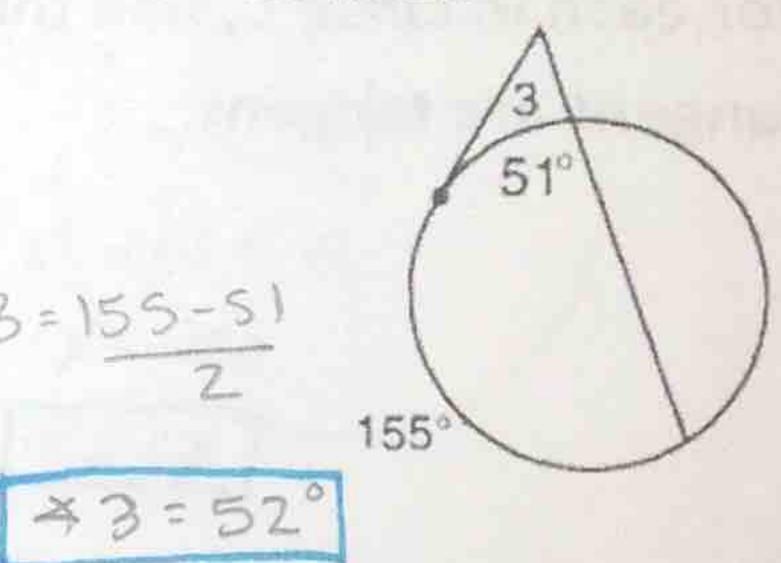
7 2 = 200-60

 $5. m \angle 5$

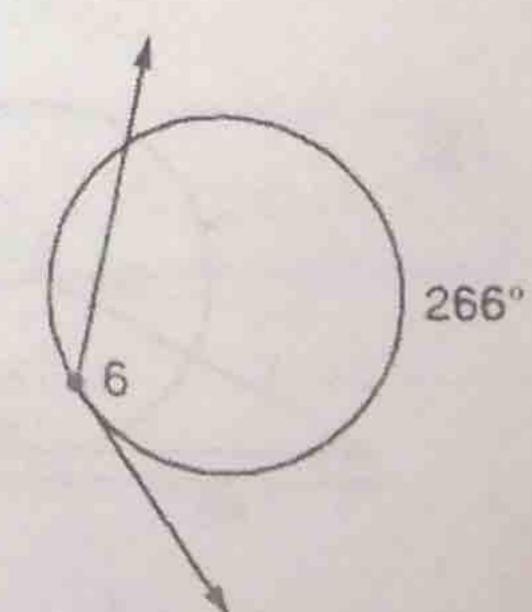


75 = 215 - 145

 $3. m \angle 3$



6. m \(6



Find the coordinates of the center of the circle and the measure of the radius given:

1)
$$(x + 1)^2 + y^2 = 121$$

2)
$$(x-4)^2 + (y-1)^2 = .49$$

Write an equation of a circle with the given center that passes thru the given point.

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

 $(x-2)^2 + (5-3)^2 = x^2$
 $(x-2)^2 + (5-3)^2 = x^2$

$$(x-2)^{2}+(y-3)^{2}=r^{2}$$

$$(0-2)^{2}+(5-3)^{2}=r^{2}$$

$$(x-2)^{2}+(y-3)^{2}=8$$

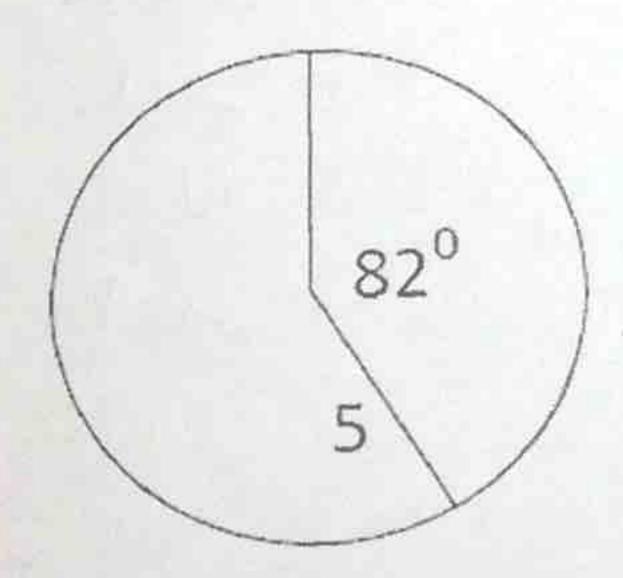
Given the two endpoints of a diameter, find the center and radius of a circle.

(x-1) + (y-2) = Y2 (3-172 + (10-2)2 = Y2 20=Y2

 $4 + 10 = x^2$ $(x-1)^2 + (y-2)^2 = 20$

Find the length of the minor arc.

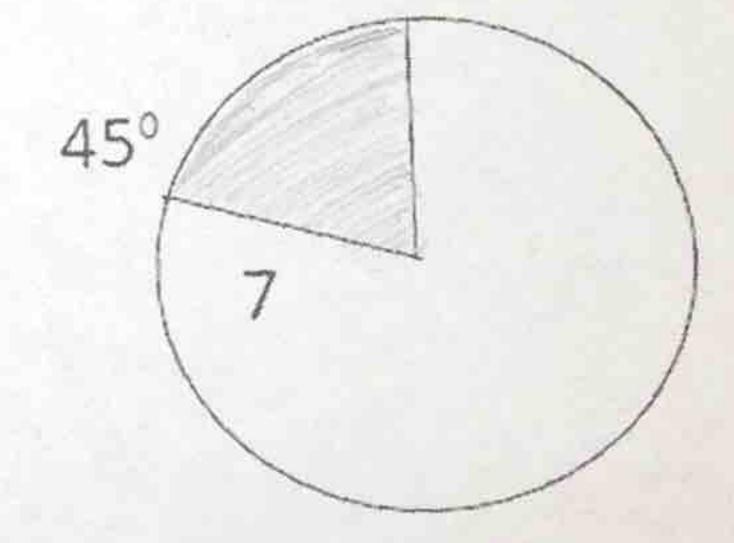
5)



Minor Arc = 7.15 Units

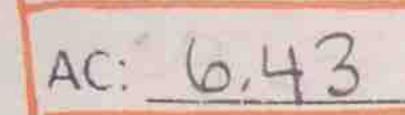
Find the area of shaded portion.

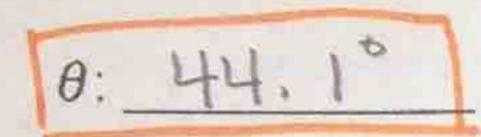
6)



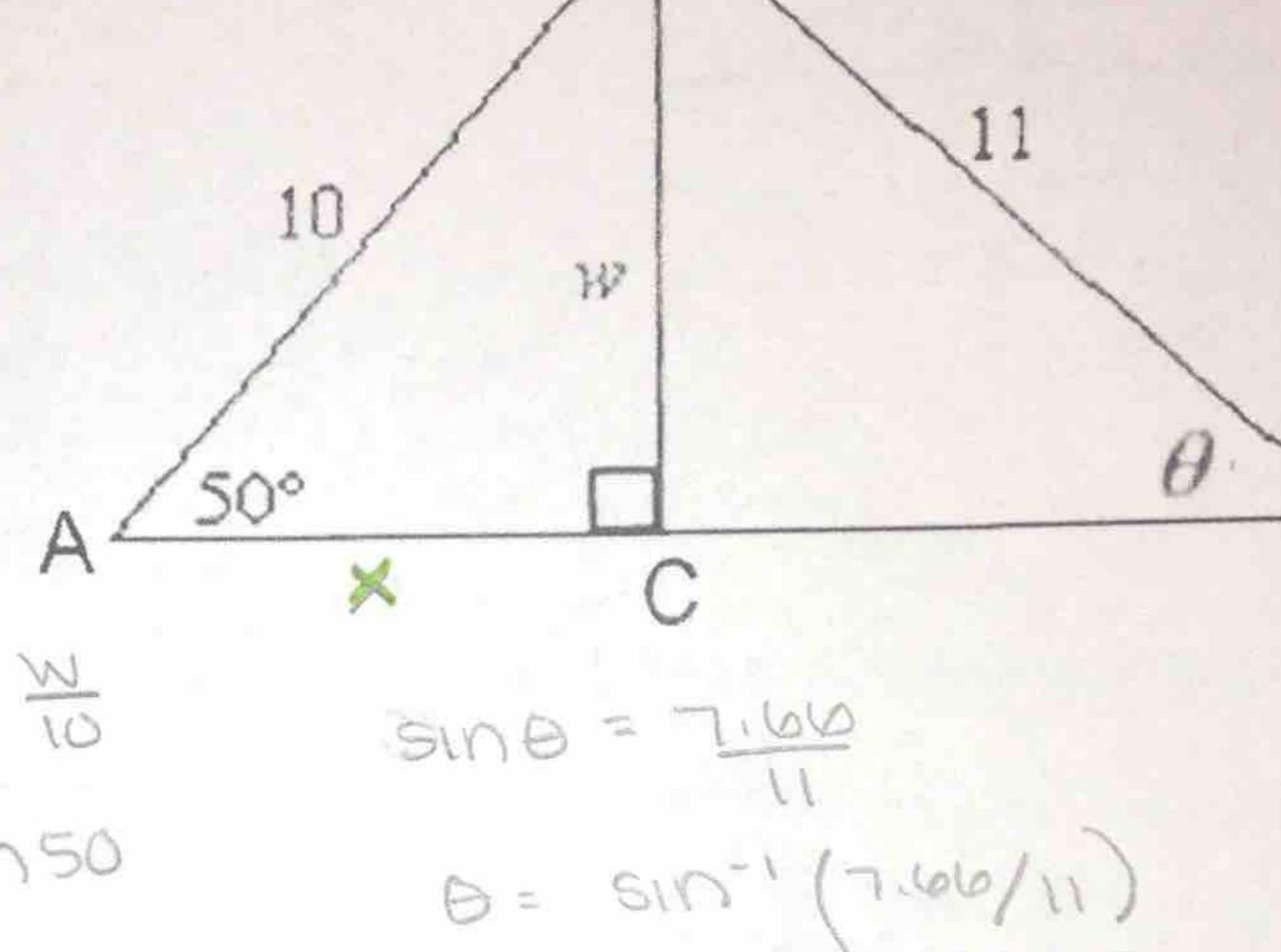
$$shaded = \pi(7)^2(45)$$
 360

shaded = 19.23 units

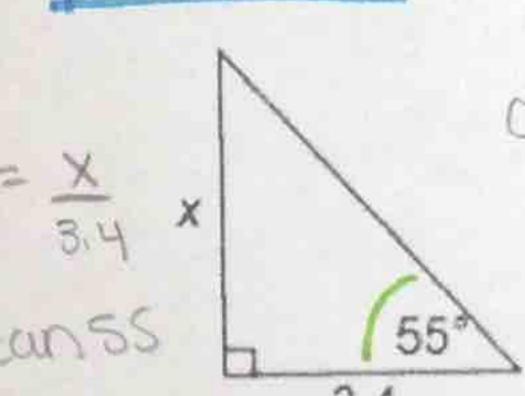


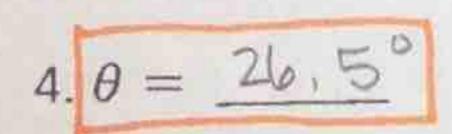


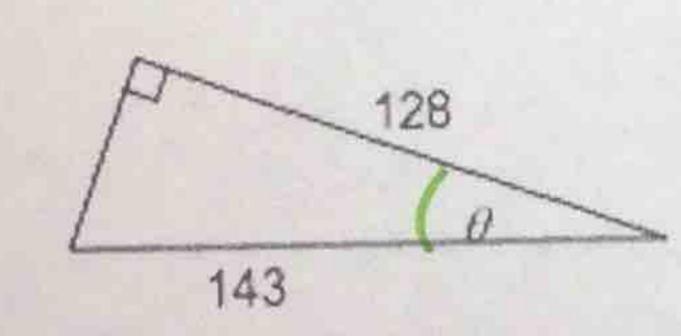
$$\cos 50 = \frac{x}{10}$$



x=3,4+an55



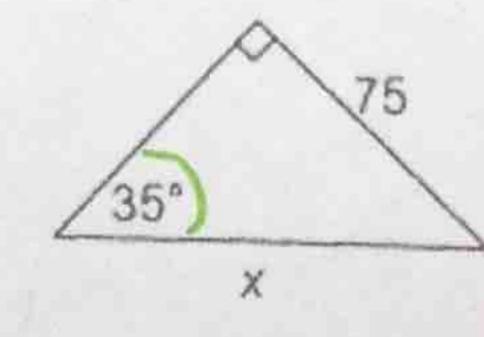




$$3. \theta = 600^{\circ}$$

COS 0 = 2/4

$$5.x = 130.8$$



$$X = \frac{75}{5035}$$

6. Give the picture, find the following sides:

$$\overline{AD} = \overline{AD}$$
 $\overline{BC} = \overline{AD}$
 $\overline{CD} = \overline{AD}$

$$\overline{AB} = 12.1$$

