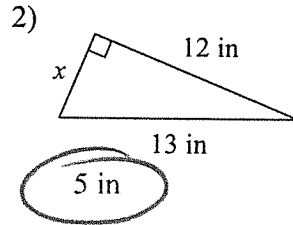
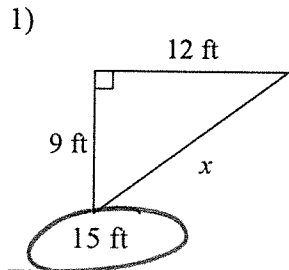
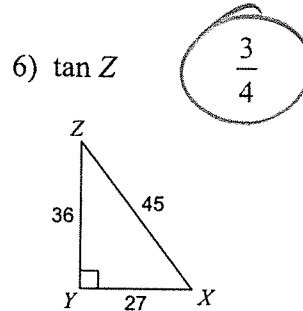
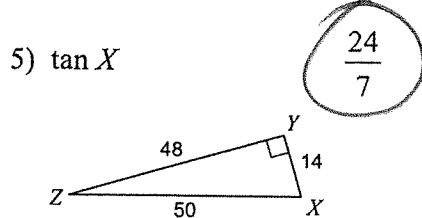
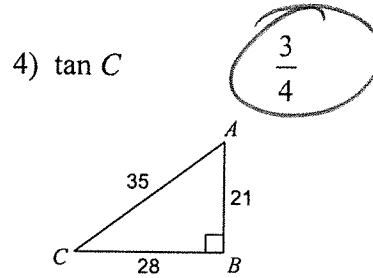
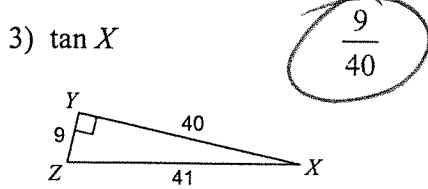


Senior Final Review

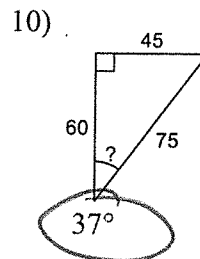
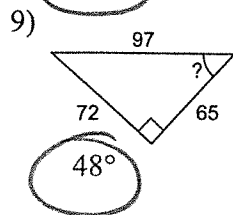
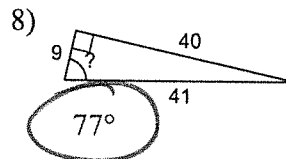
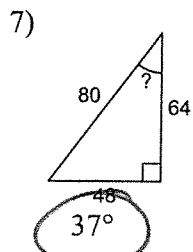
Find the missing side of each triangle. Round your answers to the nearest tenth if necessary.



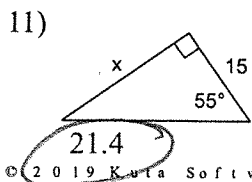
Find the value of each trigonometric ratio.



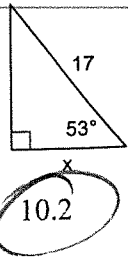
Find the measure of the indicated angle to the nearest degree.



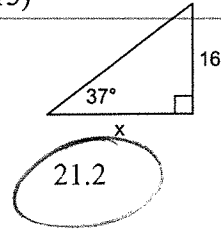
Find the missing side. Round to the nearest tenth.



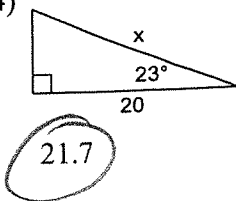
12)



13)

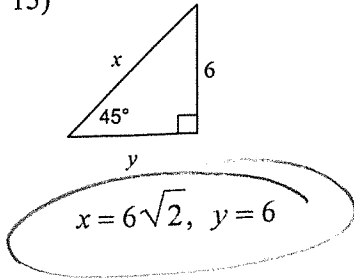


14)

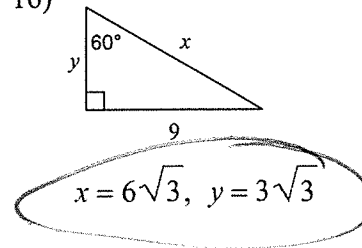


Find the missing side lengths. Leave your answers as radicals in simplest form.

15)

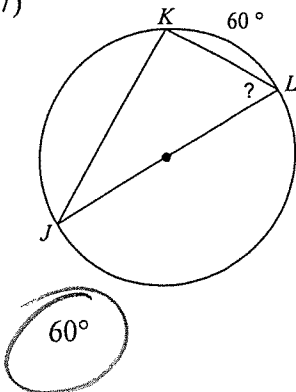


16)

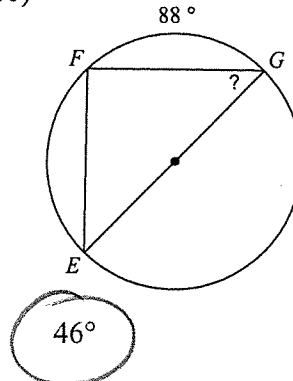


Find the measure of the arc or angle indicated.

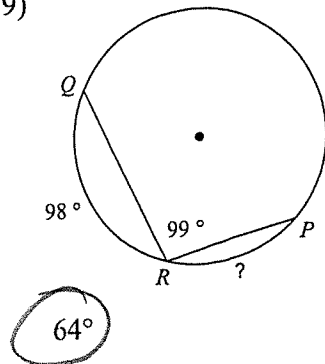
17)



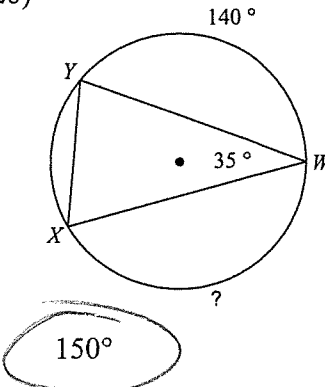
18)



19)

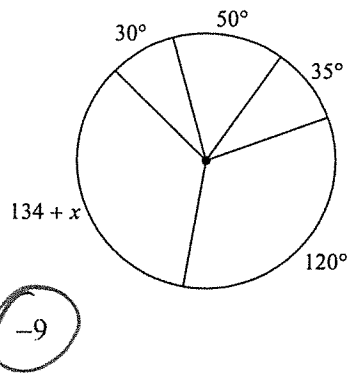


20)

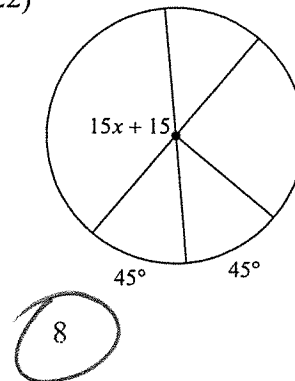


Solve for x . Assume that lines which appear to be diameters are actual diameters.

21)

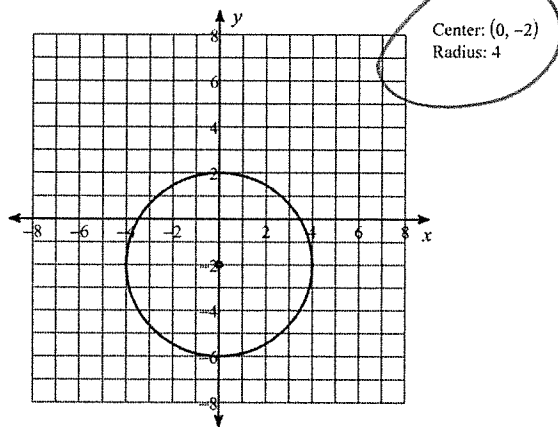


22)

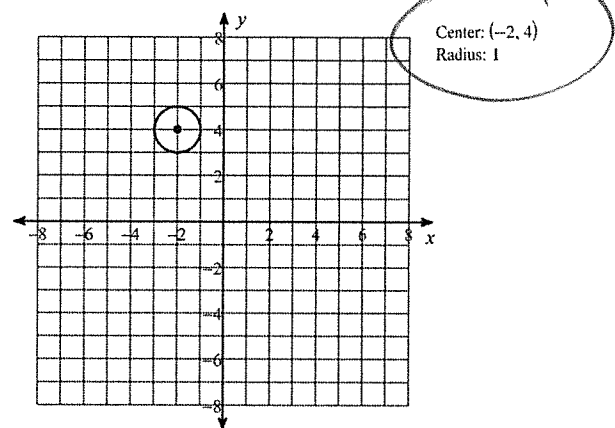


Identify the center and radius of each. Then sketch the graph.

23) $x^2 + (y + 2)^2 = 16$



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



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

25) Center: $(14, -14)$
Radius: 4

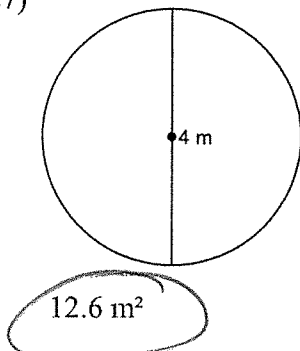
$(x - 14)^2 + (y + 14)^2 = 16$

26) Center: $(-9, 1)$
Radius: 5

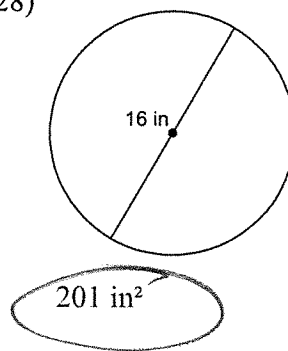
$(x + 9)^2 + (y - 1)^2 = 25$

Find the area of each. Use 3.14 for the value of π . Round your answer to the nearest tenth.

27)

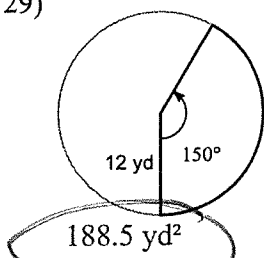


28)

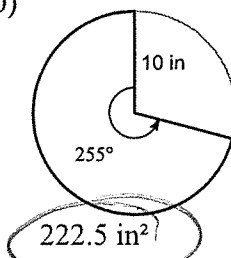


Find the area of each sector. Round your answers to the nearest tenth.

29)

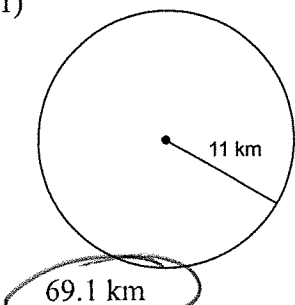


30)

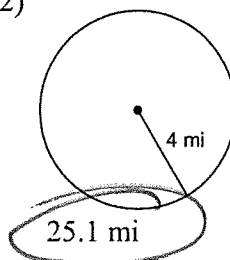


Find the circumference of each circle. Use 3.14 for the value of π . Round your answer to the nearest tenth.

31)

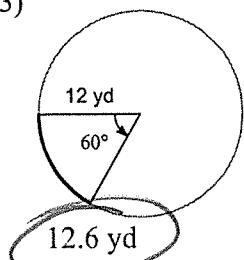


32)

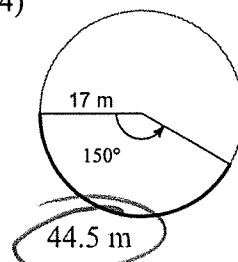


Find the length of each arc. Round your answers to the nearest tenth.

33)



34)



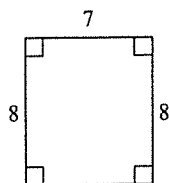
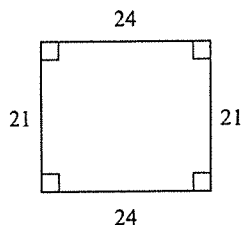
Solve each proportion.

35) $\frac{n - 10}{5} = \frac{3}{6}$
{12.5}

36) $\frac{2}{7} = \frac{4}{b + 10}$
{4}

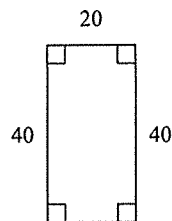
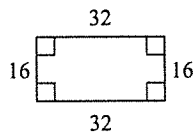
State if the polygons are similar.

37)



similar

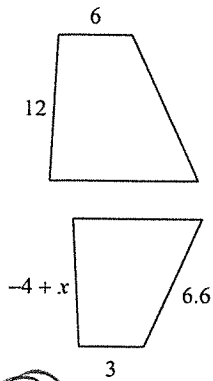
38)



similar

Solve for x . The polygons in each pair are similar.

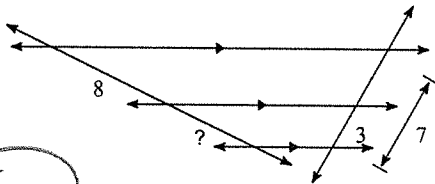
39)



10

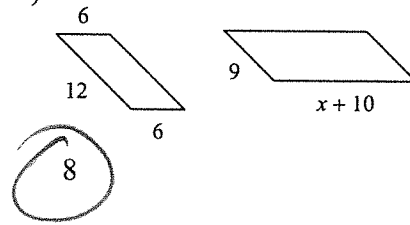
Find the missing length indicated.

41)



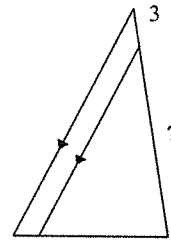
6

40)



8

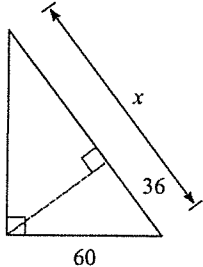
42)



15

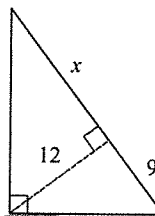
Find the missing length indicated. Leave your answer in simplest radical form.

43)



100

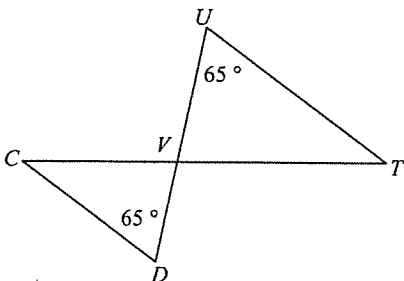
44)



16

State if the triangles in each pair are similar. If so, state how you know they are similar and complete the similarity statement.

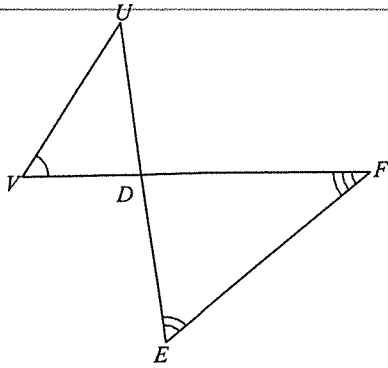
45)



$\triangle VUT \sim$

similar; AA similarity; $\triangle VDC$

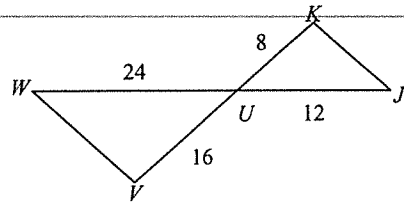
46)



$\triangle DEF \sim$ _____

not similar

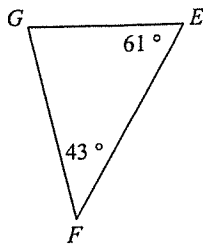
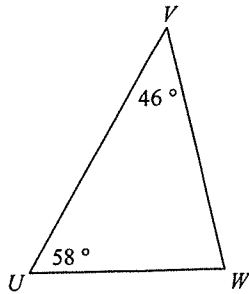
47)



$\triangle UVW \sim$ _____

similar; SAS similarity; $\triangle UKJ$

48)

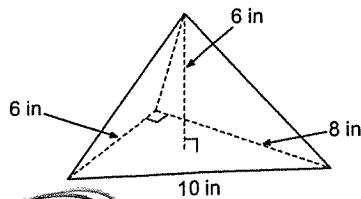


$\triangle UVW \sim$ _____

not similar

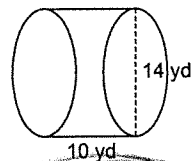
Find the volume of each figure. Round your answers to the nearest hundredth, if necessary.

49)



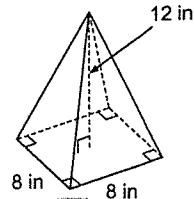
48 in³

50)



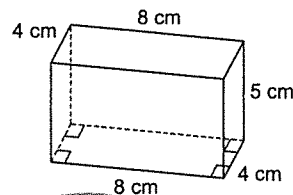
1539.38 yd³

51)



256 in³

52)



160 cm³