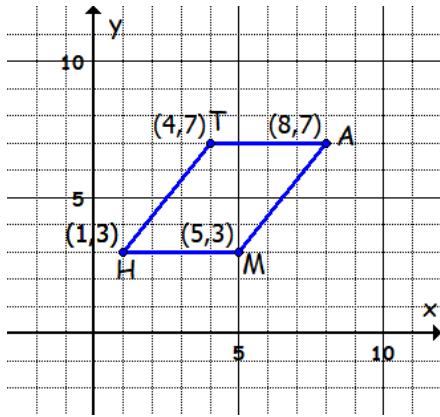


Geometry Semester 2 final review

This review contains a sampling of C-Level problems only. For A and B level problems, see the group tests from those units. Group tests and their keys are available on my website.

Unit 6



Length of  $\overline{MA}$ .

Length of  $\overline{AT}$ .

Length of  $\overline{TH}$ .

Length of  $\overline{HM}$

Slope of  $\overline{MA}$ .

Slope of  $\overline{AT}$ .

Slope of  $\overline{TH}$ .

Slope of  $\overline{HM}$

Midpoint of  $\overline{MT}$ .

Midpoint of  $\overline{AH}$ .

What is the most specific quadrilateral name for MATH? Explain.

Slope of  $\overline{MT}$ .

Slope of  $\overline{AH}$

Length of  $\overline{MT}$ .

Length of  $\overline{AH}$

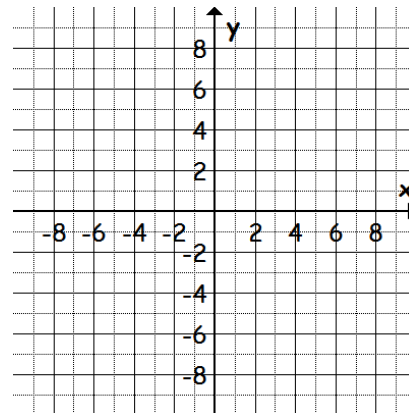
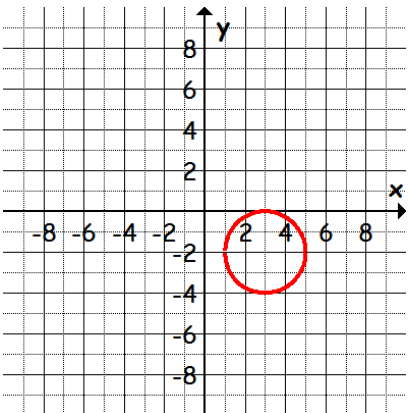
Find the area of MATH.

Find the perimeter of MATH.

Unit 7

Write the equation of the circle.

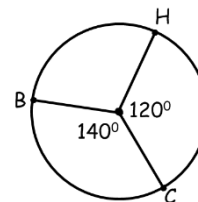
Graph the circle with the equation  $(x-4)^2 + (y+3)^2 = 25$



Find the measure of each arc:

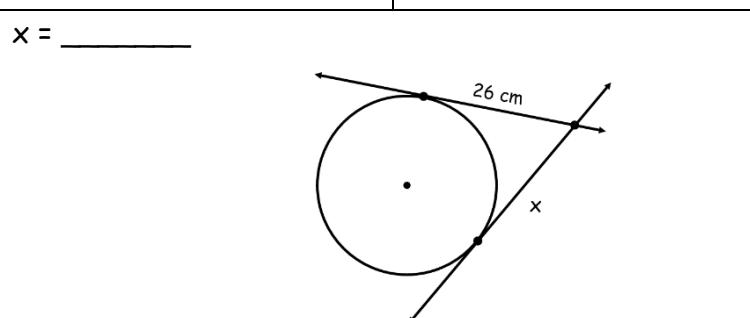
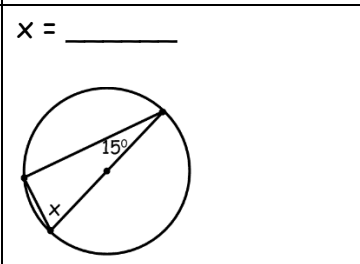
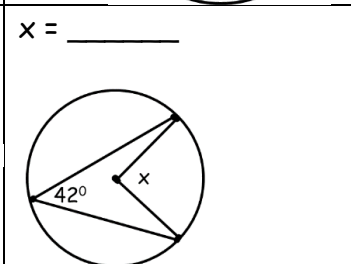
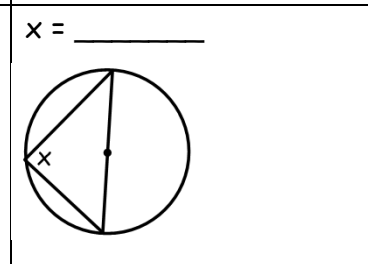
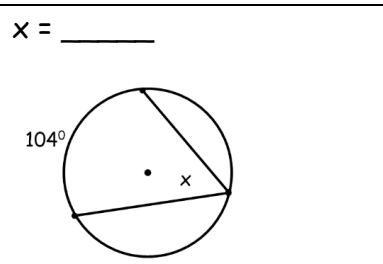
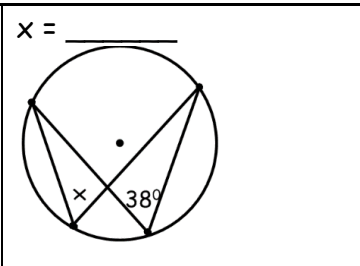
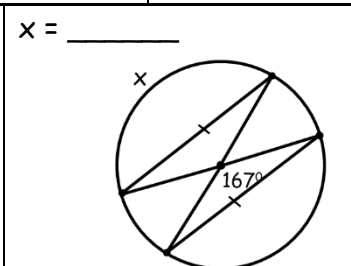
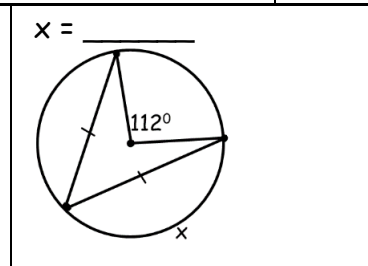
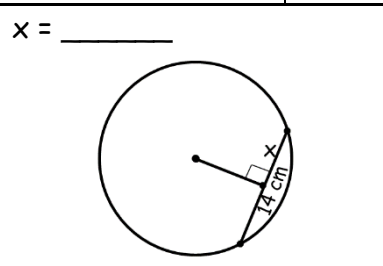
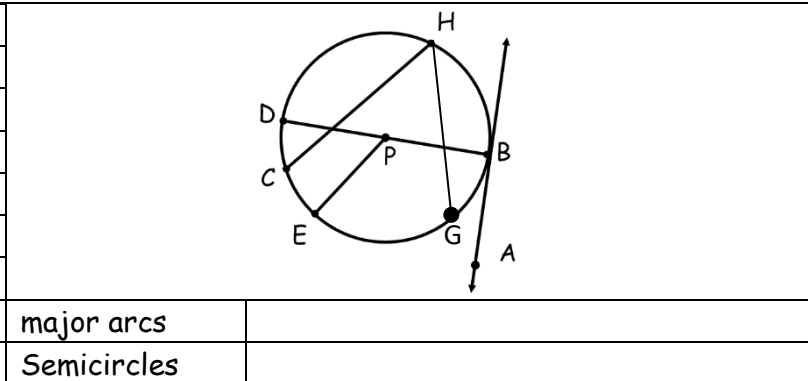
a.  $m\widehat{BH} = \underline{\hspace{2cm}}$

b.  $m\widehat{HCB} = \underline{\hspace{2cm}}$

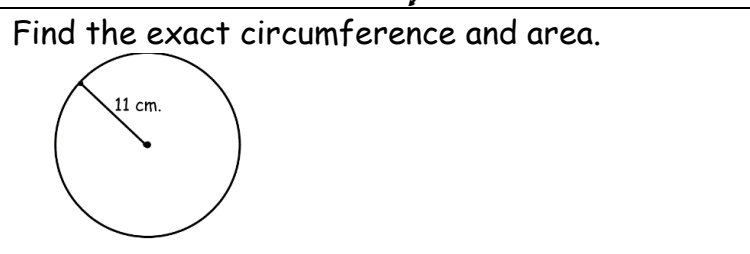


Using correct symbols, name all:

Centers	
Radii	
Diameters	
Chords	
Tangent lines	
Points of tangency	
Inscribed angles	
Central Angles	
minor arcs	

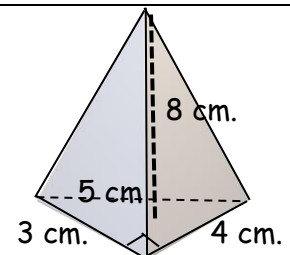
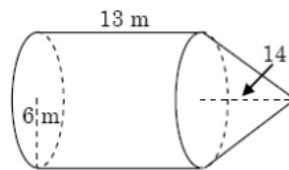
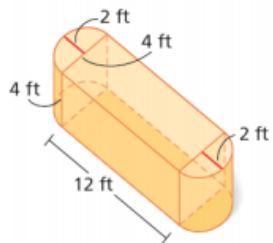
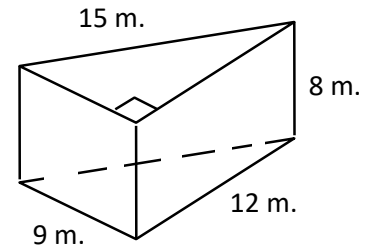
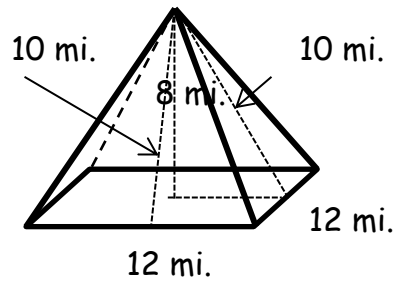
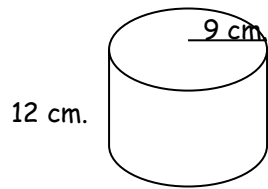
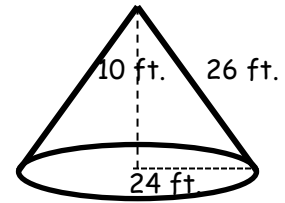
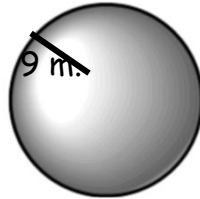
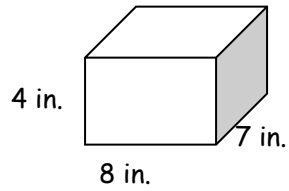


Find the exact arc length of  $\widehat{EDC}$  and the area of the shaded sector.



At the skate park, a "half-pipe" ramp is formed by two quarter-circle ramps, each of which is 8 feet high, plus a flat space 20 feet long between the centers. Find the distance a skater travels from the top of one ramp to the top of the other.

Unit 8 - Find the volume

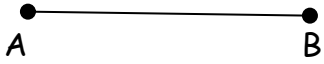


The height of a cone is 6 inches and the radius of the top is 3 inches. If a perfectly spherical scoop of snow cone melted would the cone be able to hold the liquid with given dimensions and no spillage?

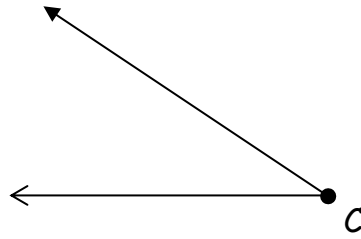
Unit 5

Complete each of the following constructions. Leave all construction marks.

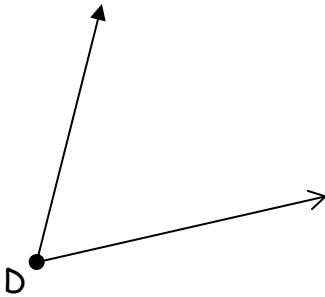
a. Copy  $\overline{AB}$



b. Copy  $\angle C$



b. Bisect  $\angle D$



d. Construct the perpendicular bisector of  $\overline{GH}$

