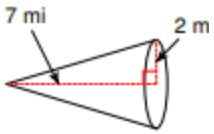
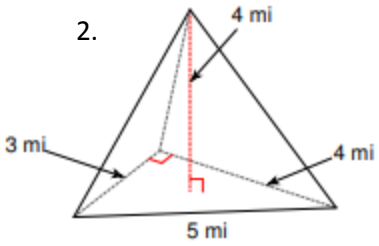
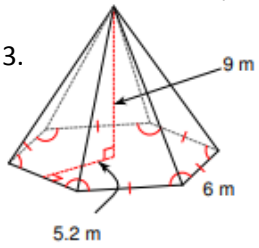
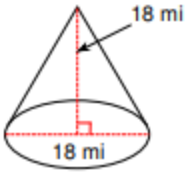
11.7 Name_____

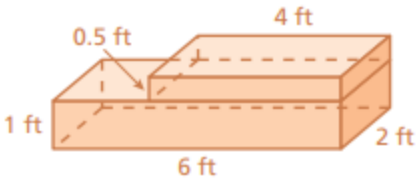
Find the volume of the figure shown. Write the formula and show all work.

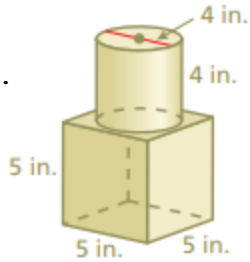
1. 

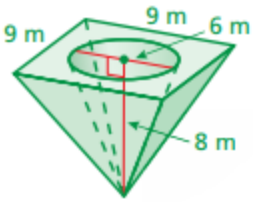
2. 

3. 

4. 

5. 

6. 

7. 

8. Write the equation of the circle. Name the radius and the center of the circle.

$X^2 + y^2 - 12x + 24y - 1 = 0$

9. Find the equation of a line parallel to the line y=3x-5 and containing the point (1,-3).

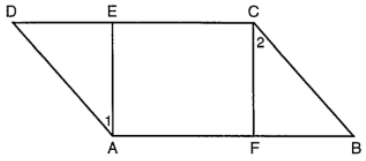
11. If the population of a city is 5,500 and the city is shaped like a circle with a radius of 10 miles, find the population density of the city.

12. The spider looks down at the spider web in the doorway at an angle of depression of 20 degrees.. If the door is 8 feet tall, how far is the spider from the web? DRAW A PICTURE, LABEL IT, and SOLVE.

13.Write cos 62 in terms of sine. 14. Write sin 80 in terms of cosine. 15. Convert 250 to radians.

16. Given: $\square$ ABCD
$\overline{DE} \cong \overline{FB}$

Prove: a) $\Delta DEA \cong \Delta BFC$
b) $\angle 1 \cong \angle 2$

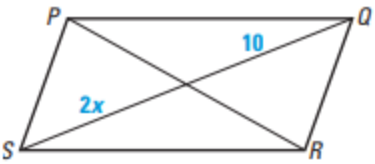


STATEMENT	REASONS
1. Parallelogram ABCD	1. Given
2. $\overline{AD} \cong$ _____	2.
3. $\angle D \cong$ _____	3.
4. $\overline{DE} \cong \overline{FB}$	4. Given
5.	5.
6.	6.

17. Find x.

KLMN is a rectangle.

PQRS is a parallelogram.



CDEF is a rectangle.