Unit 7 Review - Geometry   NAME _____

Definitions and Notation
*Identify the type of figure shown. Then name the figure using the points.*

1.

2.

3.

4. G _____ H
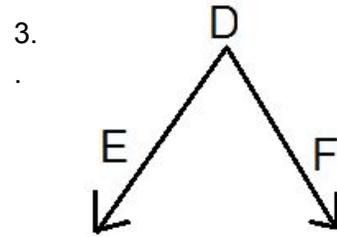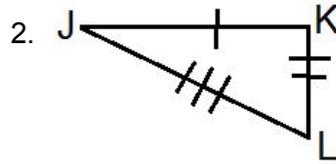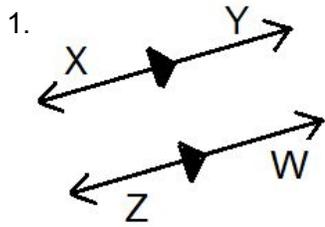
Identify the type of angles shown.

5.

6.

7.
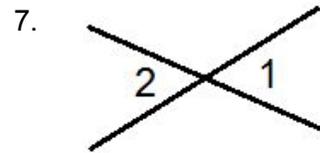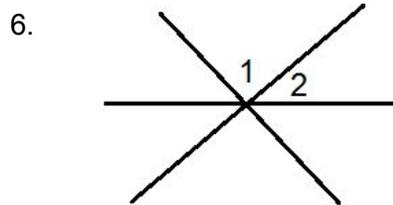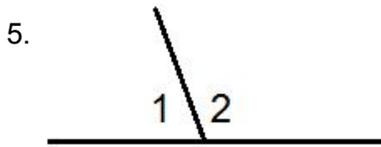
Surface Area
Determine the surface area of each figure. Be sure to include units in the answer!!

8.

7 in.
4 in.

9.

10 m
10 m

10.

5"
3"
8"
4"

11.

7 cm

12.

15 in.
9 in.
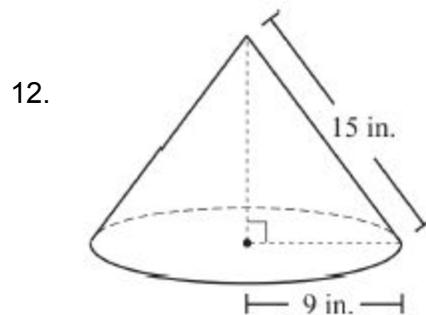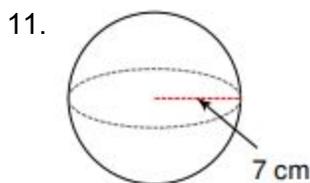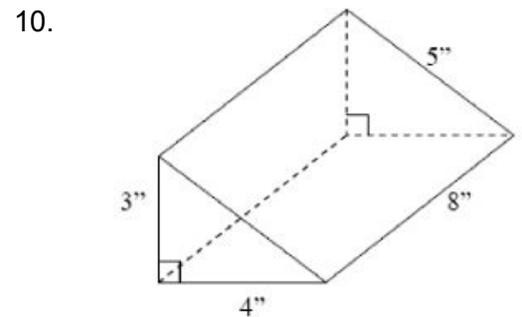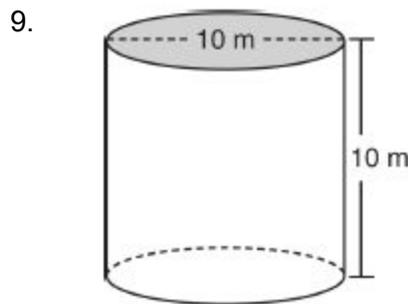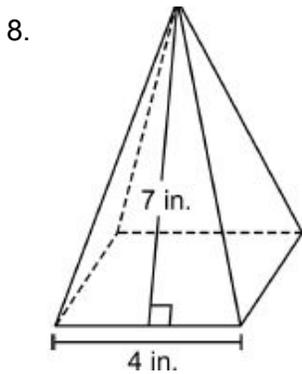
Volume

Determine the volume of each figure. Be sure to include units in the answer!!

13.

12 mi

14.

12 in
16 in
30 in

15.

7 cm
10 cm

16.

3 m
4 m
8 m

17.

12 in.
8 in.
10 in.
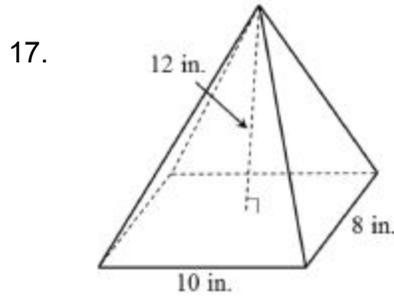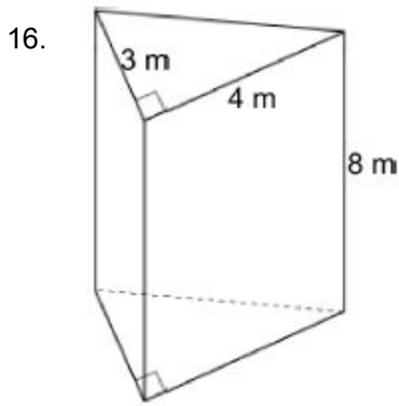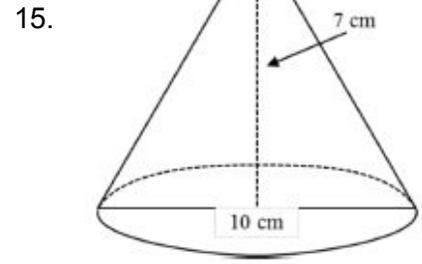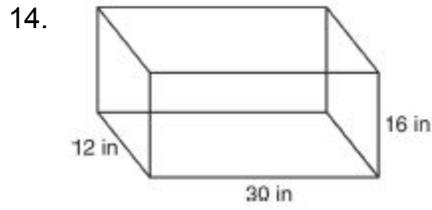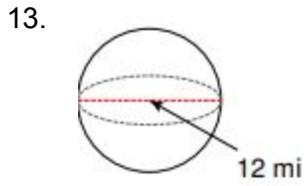
Triangle Congruence Theorems

Determine which theorem can be used to prove that the triangles are congruent. If it is not possible to prove that they are congruent, write not possible.

18.

19

20.


21.
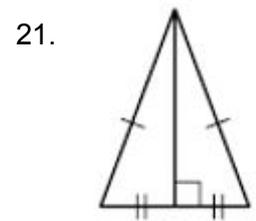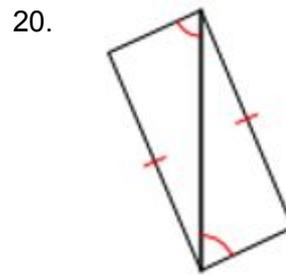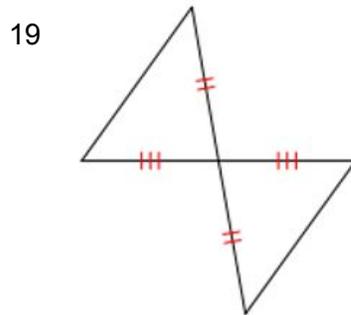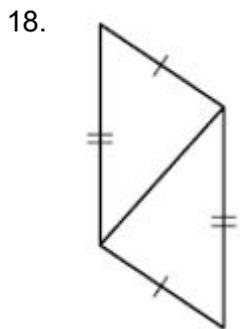
Parallel Lines and Transversals
Solve for x.

22.

E

$(2x+30)°$

A — G — B

$(x+80)°$ H

C — D

F

23.

t

$(3x+42)°$ — ℓ

$(5x-22)°$ — m

24.

E

A — $80°$ G — B

$(5x)°$

C — H — D

F

25.

E

$(5x)°$

G

A — B

C — D

$(x+12)$ H

F

26.

G

$(3x+60)°$

A — E

F

C — $60°$ — D

H
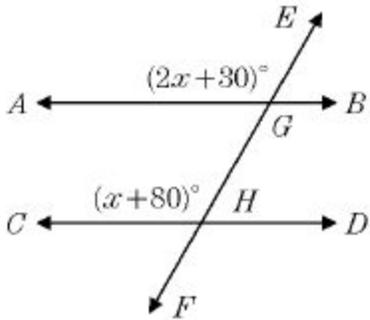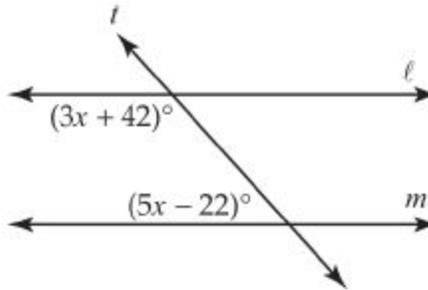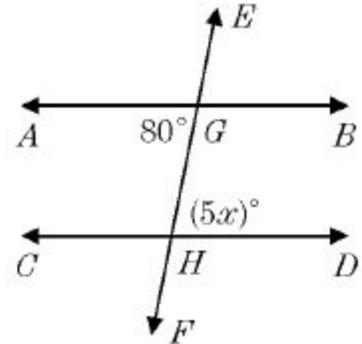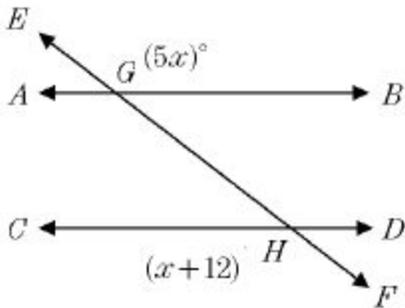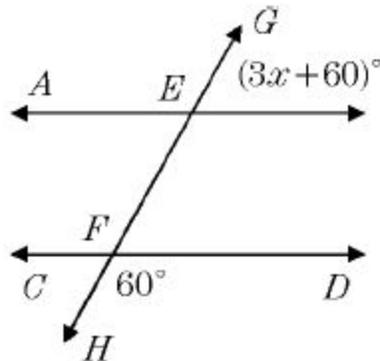
Parallelograms
Solve for x.

27.

A

$(2x+15)°$ x° B

D — C

28.

D   C

$(5x-22)°$

$(2x+35)°$

A   B

29.

3x − 8

2x + 1
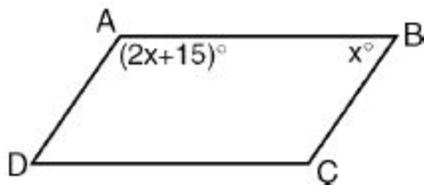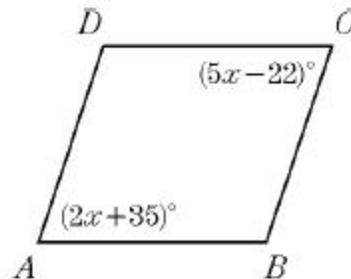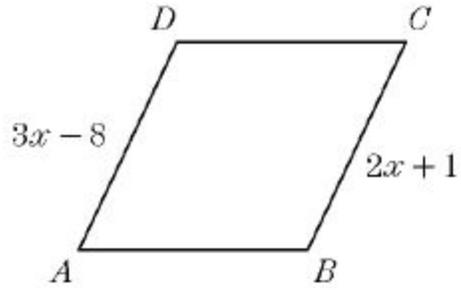
30. $BD = 8x + 4$ and $BE = 22$
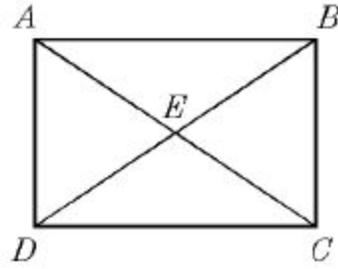
Absolute Value Equations
Solve for x.

31. $|7 − 2x| = 3$

32. $−4\,|5x − 2| = −20$

33. $|x − 7| + 5 = 17$