Geometry Development 6.2

Identify each triangle completely. (By sides and angles.)

1)

2)

3)

4)

5)

6)
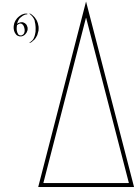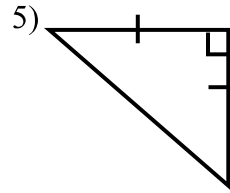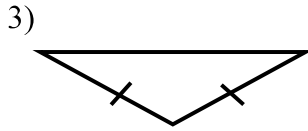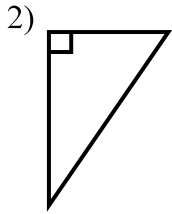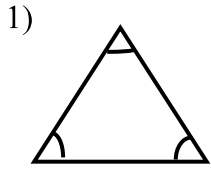
Find the length of each arc.

7) $\overset{\frown}{PK}$

8) $\overset{\frown}{MP}$
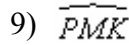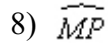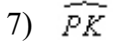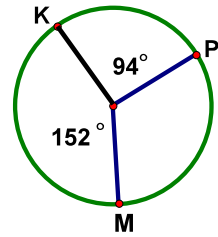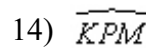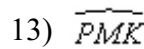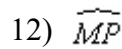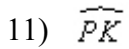
9) $\overset{\frown}{PMK}$

10) $\overset{\frown}{KPM}$

D = 29.3 m

K

P

94°

152 °
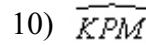
M

Find the area of each sector.

11) $\overset{\frown}{PK}$

12) $\overset{\frown}{MP}$

13) $\overset{\frown}{PMK}$

14) $\overset{\frown}{KPM}$

A = 44 m²

K

P

94°

152 °

M
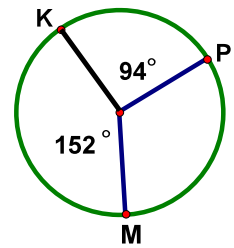
Find the probability that a fly lands on each segment given below.

15) BD

16) JP

17) QR

18) VW

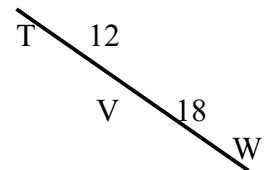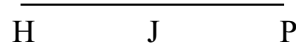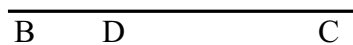B   D   C   H   J   P   P   17   Q   6   R

T   12

V   18

W

19) A guy wire runs from the top of a tower that is 45 m tall. It attaches to a concrete block on the ground that sits 15 m from the base of the tower. How long is the wire?

20) Tom is flying a kite and has released 75 yds of string. He is standing 42 yds from Bill who is standing directly beneath the kite. Assuming the string is taut, what is the height of the kite from the ground?
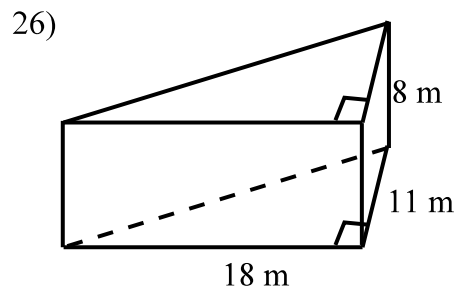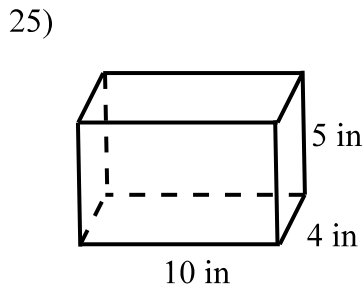
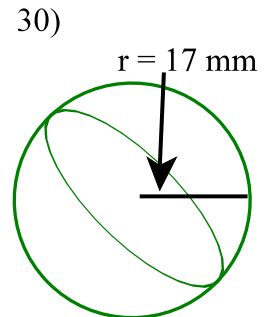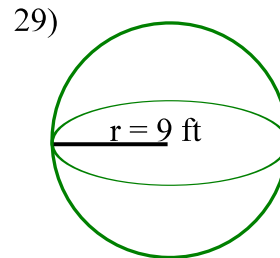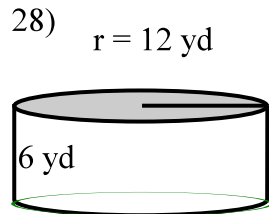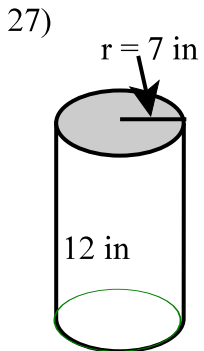Classify each polyhedron and list the vertices,
edges, and faces.
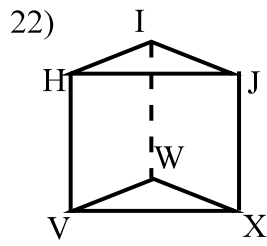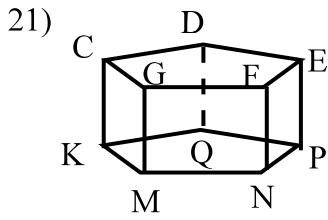
Classify each prism. Give the bases.

21)

22)

23)

24)
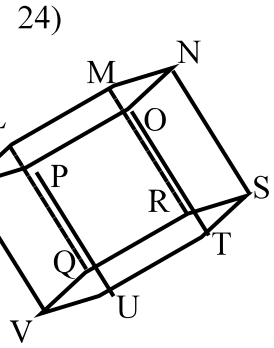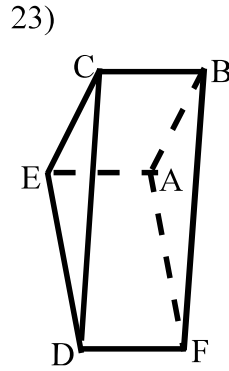
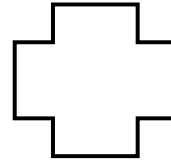Give the base area and height of each prism below, then find its' surface area and volume.

25)

5 in
4 in
10 in

26)

8 m
11 m
18 m

Give the surface area and volume of each figure below.

27)

r = 7 in
12 in

28)

r = 12 yd
6 yd

29)

r = 9 ft

30)

r = 17 mm

State the number of lines of symmetry in each figure below. Draw the lines.
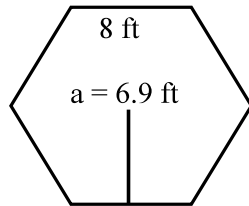
31) 32) 33) 34) 35) 36)

R K A 8

European
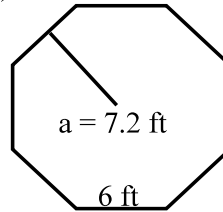shore crab

Find the area of each polygon below.

37)

a = 2.1 ft

3 ft

38)

8 ft

a = 6.9 ft

39)

a = 7.2 ft

6 ft

40)

a = 13.9 ft

16 ft
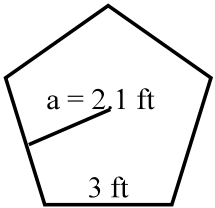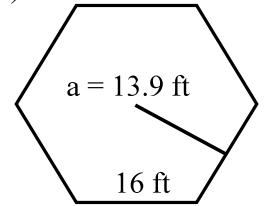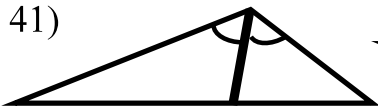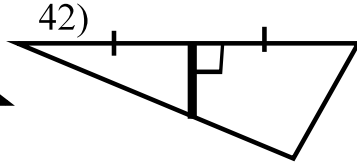
Identify the bolded segment in each triangle below.

41) 42) 43) 44)

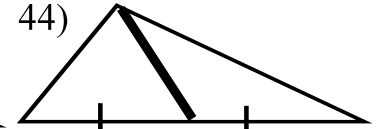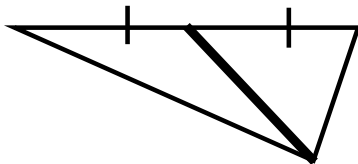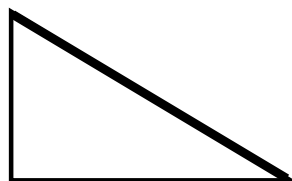45) 46) 47) 48)