A. Find the missing angle measure.

1) \[ \triangle \quad 64° \quad 24° \]

2) \[ \quad 156° \quad 32° \quad 91° \]

3) \[ \quad 82° \quad 54° \]

4) \[ \quad 50° \quad 123° \]

5) In a pentagon, each of two angles measures 76°. Another angle measures 111°, and a fourth angle measures 146°. What is the measure of the missing angle?

6) What is the sum of the measure of the interior angles of an octagon?

7) What is the measure of each interior angle of a regular decagon?
8) Name the polygon whose interior angle measures have a sum of 720°.

B. Pythagorean Theorem

9) Find the length of “x”.

10) Find the length of “k”.

11) A 20 ft-ladder is leaning up against a wall. The bottom of the ladder is 4 feet from the bottom of the wall. How far up the wall does the top of the ladder touch the wall? (Round your answer to the nearest tenths place.)

12) Jim drives 36 kilometers north, then 48 kilometers east. What is the diagonal distance from his starting point?
C. Areas, Volumes, etc.

13) Find the area. 

16) Find the volume. 

14) Find the surface area. 

17) Find the circumference. 

15) Find the area. 

18) Find the volume.
D. Special Types of Angles

19) What is the complement of a 74° angle?

20) What is the supplement of a 28° angle?

21) What angle is adjacent to ∠BAR?

22) What angle is complementary to ∠BAC?

23) ∠BAC and what angle are vertical angles?

24) What angle is supplementary to ∠CAG?

25) ∠1 and what other angle are vertical angles?

26) ∠6 and what other angle are alternate interior angles?

27) ∠1 and what other angle are corresponding angles?

28) ∠4 and what other angle are corresponding angles?

29) If m∠4 = 38°,

m∠1 = _____  m∠3 = _____  m∠6 = _____  m∠8 = _____

m∠2 = _____  m∠5 = _____  m∠7 = _____

(c and d are parallel)