Bronze: Find the value of *x* and the measures of any missing angles.

22. Find m∠O, m∠T, and m∠P.
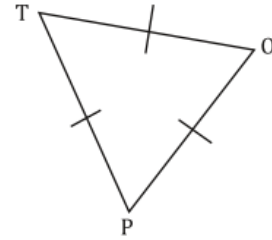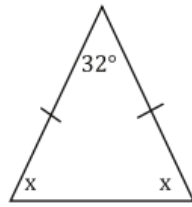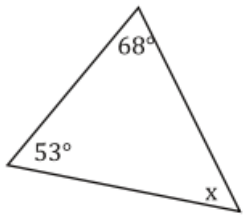
Silver: Find the value of *x* and the measures of any missing angles.

32. m∠S=2x, m∠A=X-23. m∠D=X-17°.
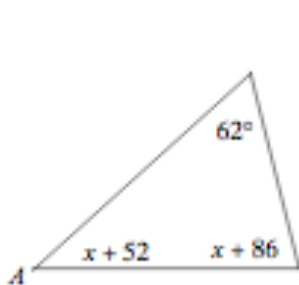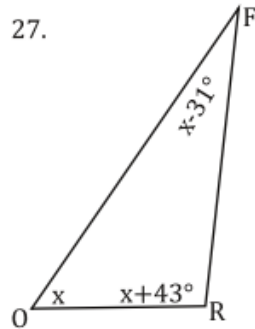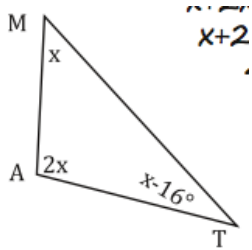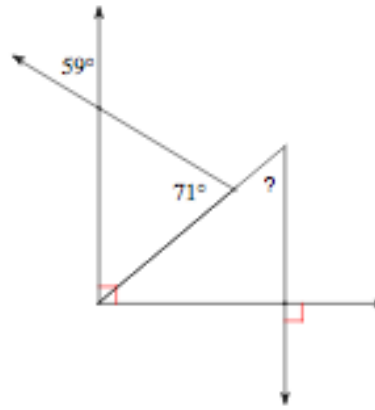   Find m∠S.

27.
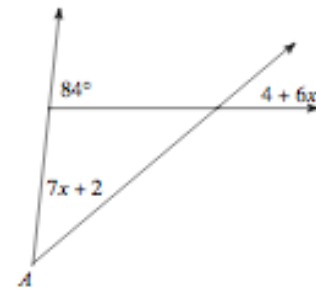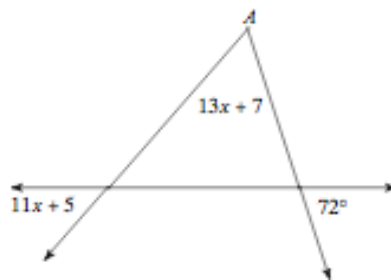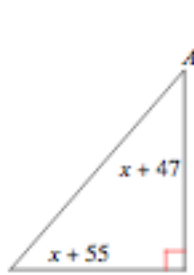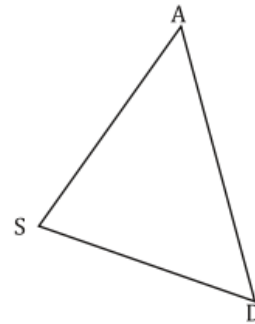
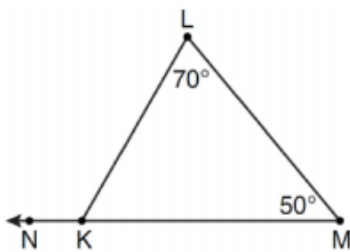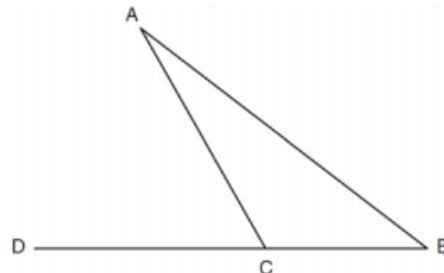

Gold: Find the measure of each angle indicated.

1)

41°

95°

53°

40°   ?

2)

59°

71°   ?

3)

70°

65°   ?

117°

4)

42°   ?

48°

56°   100°
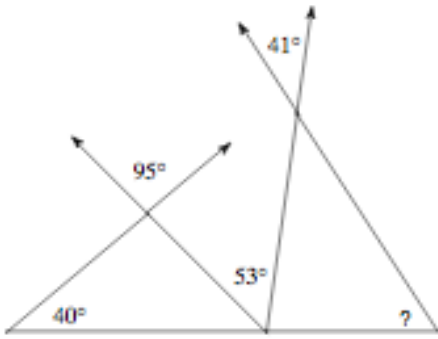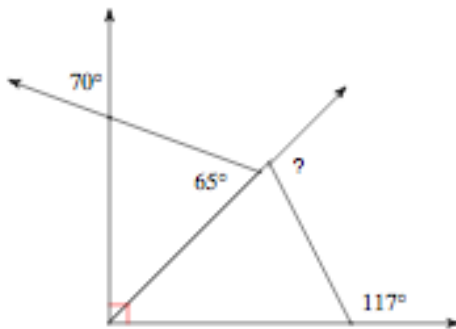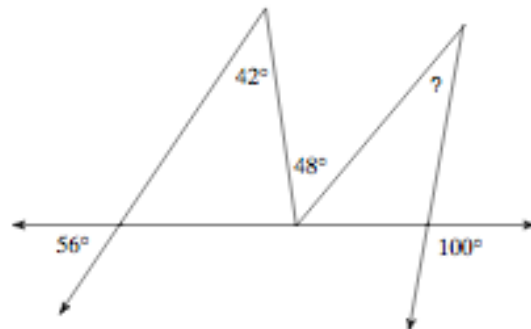
In the diagram of △KLM below, m∠L = 70, m∠M = 50, and MK is extended through N.

L

70°

50°

N   K   M

What is the measure of ∠LKN?

In the diagram below of △ABC, side BC is extended to point D, m∠A = x, m∠B = 2x + 15, and m∠ACD = 5x + 5.

A

D ———————————— B
          C

What is m∠B?

Determine the measures of the numbered angles.   Find the measures of the numbered angles.

3

2

45°   1

85°   135° 4

75°   5

5   48°
      3

56°

41°   2   1

34°

4