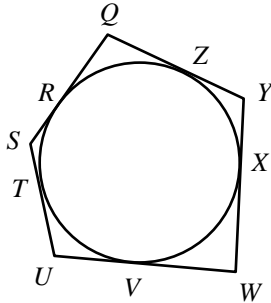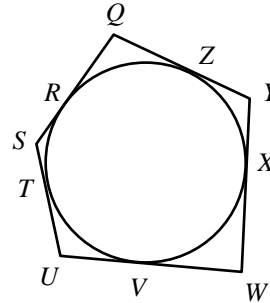NAME:_____

1. The circle is circumscribed by the pentagon
    as shown (not drawn to scale). If $QZ = 10$,
    $YX = 9$, $XW = 9$, $UW = 17$, and $SU = 10$,
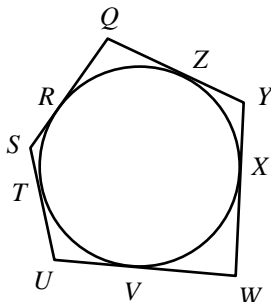   find the perimeter of the pentagon.

[A] 76   [B] 102   [C] 110   [D] 84

3. The circle is circumscribed by the pentagon
    as shown (not drawn to scale). If $QZ = 9$,
    $YX = 7$, $XW = 12$, $UW = 15$, and $SU = 16$,
    find the perimeter of the pentagon.

[A] 118   [B] 88   [C] 124   [D] 82

2. The circle is circumscribed by the pentagon
    as shown (not drawn to scale). If $QZ = 12$,
    $YX = 8$, $XW = 9$, $UW = 18$, and $SU = 15$,
    find the perimeter of the pentagon.

[A] 88   [B] 129   [C] 124   [D] 93

4. Suppose you stand at a distance from a
    circular building. Assuming your lines of
    sight form tangents to the building and make
    an angle of 22°, what is the measure of the arc
    of the building that your lines of sight
    intersect?

5. A park maintenance person stands 19 m from
    a circular monument. If you assume her lines
    of sight form tangents to the monument and
    make an angle of 43°, what is the measure of
    the arc of the monument that her lines of sight
    intersect?

    [A] 137   [B] 133   [C] 94   [D] 47

6. What arc of Earth is visible to a spaceship if
    the angle formed between two tangents to
    Earth is 30° ?

[1]   A

[2]   A

[3]   B

[4]   158

[5]   A

[6]   150°