

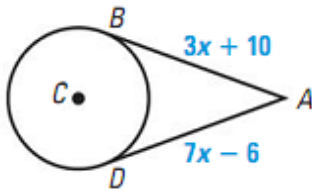
Riddle:

What did the banana do when it saw the monkey?

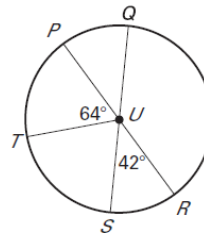


Directions: Solve each problem below. Match your answer to a letter in the Key. Then write the letter in the space above its problem number to find the answer to the riddle.

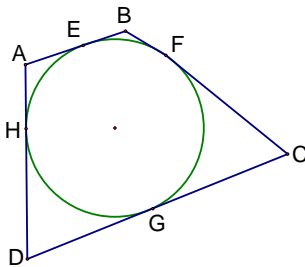
- 1 Please solve for x .



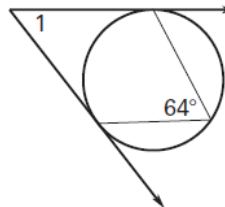
- 4 Please find $m\angle TQ$.



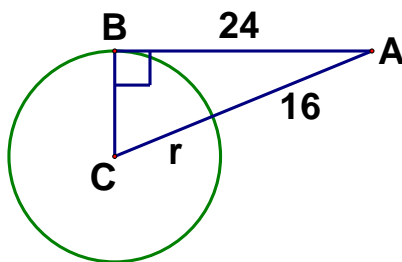
- 2 Given all segments shown are tangent and $AE = 4$, $BC = 10$, $GC = 8$, and $DC = 14$. Please find the perimeter of ABCD.



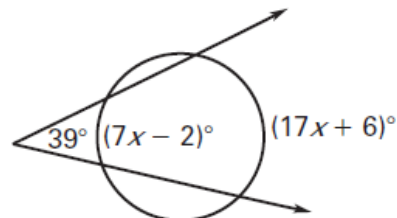
- 5 Please find $m\angle 1$.



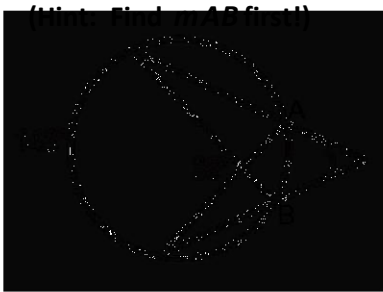
- 3 Please solve for the radius of $\odot C$.



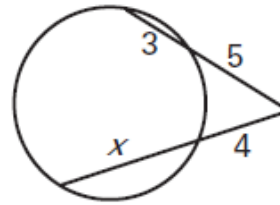
- 6 Please solve for x .



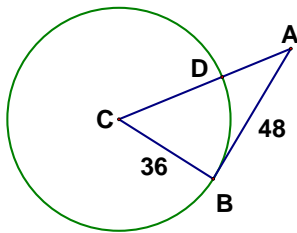
7 Please find $m\angle 1$.



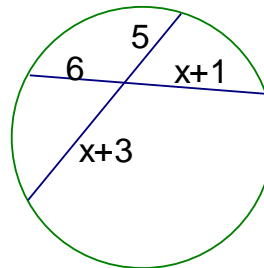
9 Please solve for x.



8 Given that \overline{AB} is tangent to $\odot C$, Please find DA .



10 Please solve for x.



Key

2 E	10 A	49 N
7 L	24 N	106 I
9 A	117.5 F	40 P
42 G	4 A	3.75 K
6 T	128 O	52 S

Riddle answer:

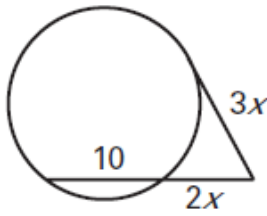
The b 1 7 10 8 3 5 2 6 4 9 !

What's the Quickest Way for an Ant to Go From the Ground to the Tree Trunk?

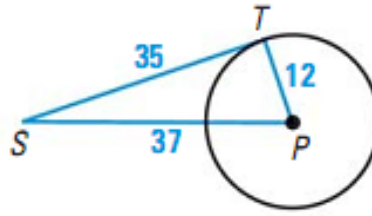


Directions: Solve each problem below. Find your solution in the answer column and notice the letter next to it. Write this letter in each box that contains the number of that problem.

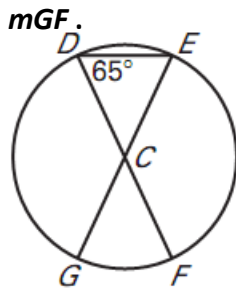
1 Please solve for x .



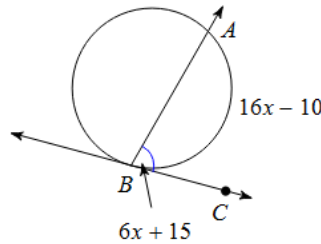
2 Please determine if \overline{ST} is tangent to $\odot P$. Justify your answer.



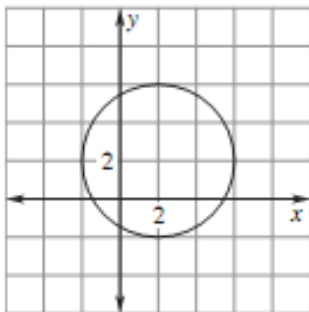
3 Given $\odot C$, please find



4 Please find $m\angle ABC$



5 Please write the standard equation for the circle below:



6 Please write the standard equation for a circle centered at the origin with a radius of 7.

7 Please write the standard equation for a circle centered at (1,3) and a point on the circle is (-4, 15)

8 The diameter of a circle has endpoints A(-1, -1) and B(7, 5). Please write the standard equation for this circle.

- B. $x^2 + y^2 = 14$
- O. $x^2 + y^2 = 49$
- A. 50
- N. 10
- E. 4
- S. 75
- U. No, $\triangle PTS$ is not a right triangle.
- M. $(x+1)^2 + (y+1)^2 = 100$
- H. Yes, $\triangle PTS$ is a right triangle.
- C. 150
- K. $(x-2)^2 + (y-2)^2 = 16$
- T. $(x-3)^2 + (y-2)^2 = 25$
- L. 130
- R. $(x-1)^2 + (y-3)^2 = 169$

8	3	5	1	8	2	1	4	2	6	7	8	1	4	8	7	6	6	8
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