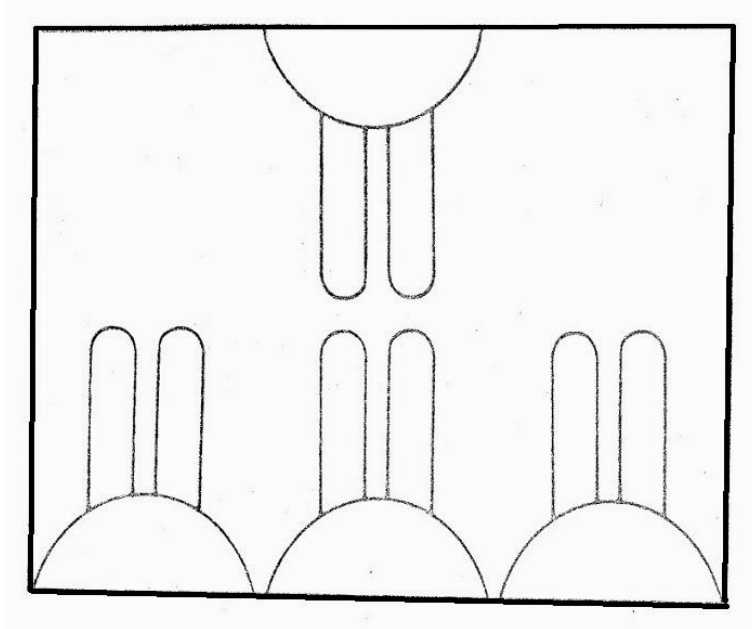


Doodle for Angles in a Circle – View from the Top
 Answer Key by David Pleacher

Can you name this doodle?



Here are four titles for this doodle:

Title 1:

S K I S C H O O L F O R S N O W M E N
 $\frac{27}{27}$ $\frac{1}{31}$ $\frac{33}{14}$ $\frac{27}{27}$ $\frac{31}{14}$ $\frac{14}{15}$ $\frac{12}{29}$ $\frac{11}{11}$ $\frac{15}{15}$ $\frac{3}{3}$ $\frac{27}{27}$ $\frac{34}{34}$ $\frac{12}{12}$ $\frac{16}{16}$ $\frac{8}{8}$ $\frac{13}{13}$ $\frac{34}{34}$

Title 2:

R A B B I T S C R I M M A G E
 $\frac{3}{3}$ $\frac{17}{17}$ $\frac{2}{2}$ $\frac{2}{2}$ $\frac{26}{26}$ $\frac{19}{19}$ $\frac{27}{27}$ $\frac{31}{31}$ $\frac{3}{3}$ $\frac{33}{33}$ $\frac{8}{8}$ $\frac{8}{8}$ $\frac{20}{20}$ $\frac{24}{24}$ $\frac{13}{13}$

Title 3:

H A M B U R G E R P O P S I C L E S
 $\frac{14}{14}$ $\frac{17}{17}$ $\frac{8}{8}$ $\frac{2}{2}$ $\frac{9}{9}$ $\frac{3}{3}$ $\frac{18}{18}$ $\frac{13}{13}$ $\frac{3}{3}$ $\frac{7}{7}$ $\frac{15}{15}$ $\frac{7}{7}$ $\frac{27}{27}$ $\frac{26}{26}$ $\frac{31}{31}$ $\frac{29}{29}$ $\frac{13}{13}$ $\frac{27}{27}$

Title 4:

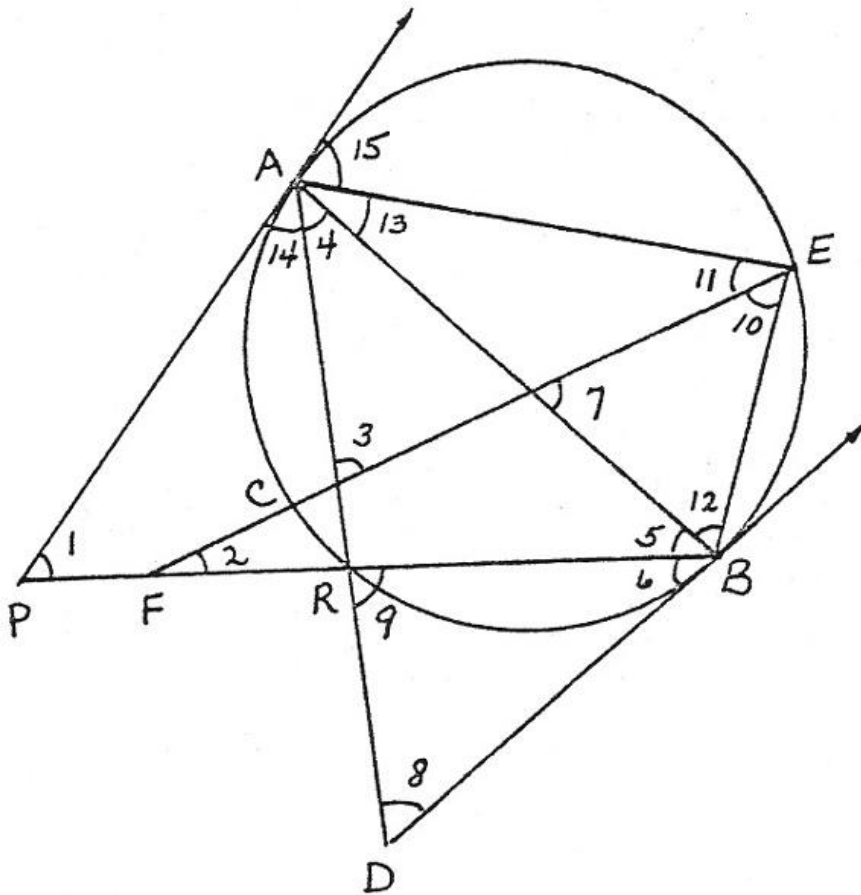
P R E G N A N T W O M E N D A N G L I N G
7 3 13 4 34 20 34 19 16 12 8 13 34 32 17 34 6 29 33 34 23

T H E I R F E E T I N A P O O L
19 5 13 33 3 11 13 13 19 26 34 20 7 15 12 29

Here are the choices for your answers:

- | | | |
|------------------|----------------|-----------------|
| A. 10° | B. 22° | C. 22.5° |
| D. 30° | E. 31° | F. 35° |
| G. 40° | H. 44° | I. 45° |
| J. 49° | K. 52° | L. 52.5° |
| M. 56° | N. 60° | O. 65° |
| P. 66° | Q. 70° | R. 74° |
| S. 75° | T. 80° | U. 84° |
| V. 90° | W. 100° | X. 110° |
| Y. 127.5° | Z. 140° | |

I. Given: $m(\text{arc } AE) = 130^\circ$, $m(\text{arc } CR) = 18^\circ$, $m(\text{arc } AC) = 70^\circ$, $m(\text{arc } BR) = 80^\circ$,
 \overline{PA} and \overline{BD} are tangents.



Determine the measures of the following angles:

K 1. $m\angle 1 = \underline{52^\circ}$

B 2. $m\angle 2 = \underline{22^\circ}$

R 3. $m\angle 3 = \underline{74^\circ}$

G 4. $m\angle 4 = \underline{40^\circ}$

H 5. $m\angle 5 = \underline{44^\circ}$

G 6. $m\angle 6 = \underline{40^\circ}$

P 7. $m\angle 7 = \underline{66^\circ}$

M 8. $m\angle 8 = \underline{56^\circ}$

U 9. $m\angle 9 = \underline{84^\circ}$

J 10. $m\angle 10 = \underline{49^\circ}$

F 11. $m\angle 11 = \underline{35^\circ}$

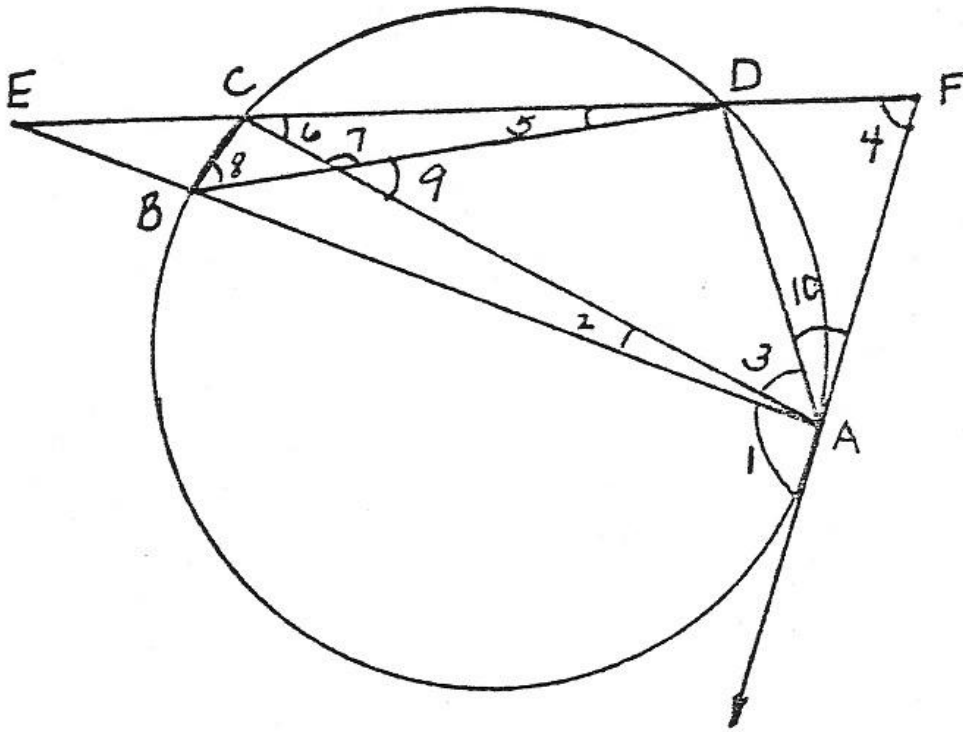
O 12. $m\angle 12 = \underline{65^\circ}$

E 13. $m\angle 13 = \underline{31^\circ}$

H 14. $m\angle 14 = \underline{44^\circ}$

O 15. $m\angle 15 = \underline{65^\circ}$

II. Given: $m\angle CEB = 20^\circ$, $m\angle DBA = 30^\circ$, $m\angle BDA = 100^\circ$, \overline{FA} is a tangent.



Determine the measures of the following angles:

W 16. $m\angle 1 = \underline{100^\circ}$

A 17. $m\angle 2 = \underline{10^\circ}$

G 18. $m\angle 3 = \underline{40^\circ}$

T 19. $m\angle 4 = \underline{80^\circ}$

A 20. $m\angle 5 = \underline{10^\circ}$

D 21. $m\angle 6 = \underline{30^\circ}$

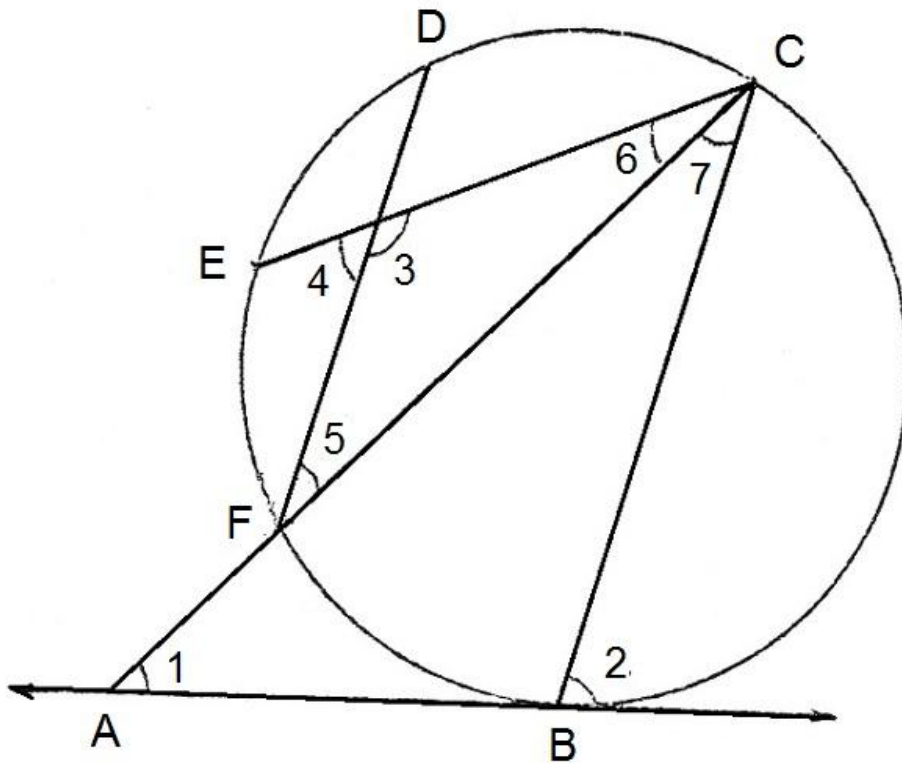
Z 22. $m\angle 7 = \underline{140^\circ}$

G 23. $m\angle 8 = \underline{40^\circ}$

G 24. $m\angle 9 = \underline{40^\circ}$

D 25. $m\angle 10 = \underline{30^\circ}$

III. Given: \overline{AB} is a tangent, $\overline{FD} \parallel \overline{BC}$, $m(\text{arc } ED) = 45^\circ$, $m(\text{arc } FB) = 60^\circ$, $m(\text{arc } BC) = 150^\circ$.



Determine the measures of the following:

- I 26. $m\angle 1 = \underline{45^\circ}$
- S 27. $m\angle 2 = \underline{75^\circ}$
- Y 28. $m\angle 3 = \underline{127.5^\circ}$
- L 29. $m\angle 4 = \underline{52.5^\circ}$
- D 30. $m\angle 5 = \underline{30^\circ}$
- C 31. $m\angle 6 = \underline{22.5^\circ}$
- D 32. $m\angle 7 = \underline{30^\circ}$
- I 33. $m(\text{arc } EF) = \underline{45^\circ}$
- N 34. $m(\text{arc } DC) = \underline{60^\circ}$