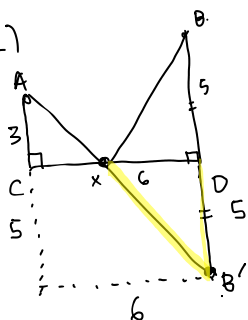


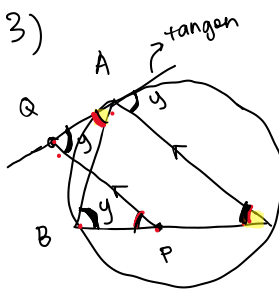
#1)



minimum
 $AX + BX$

$$\begin{aligned} AB' &= \sqrt{8^2 + 6^2} \\ &= \sqrt{100} \\ &= 10 \end{aligned}$$

#3)



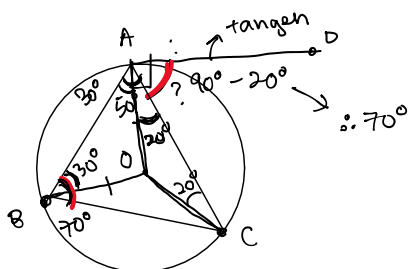
Prove: $APBQ$ cyclic.

PQ selari dgn AC.
Maka, $\angle BPQ = \angle BCA$.

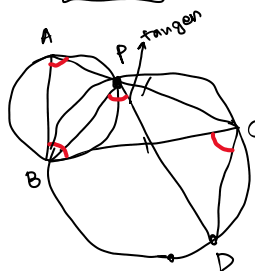
QA tangen.
Oleh itu, $\angle BAQ = \angle BCA$.
 $\therefore \angle BPQ = \angle BAQ$.

#2)

$\angle ABO = 30^\circ$
 $\angle BAC = 50^\circ$
 $AD = \text{tangen.}$
 Cari $\angle CAD$ -



#4)

$$AC = BC$$


Prove:
CD selari
dgn AB.



#5) trdpt berapa susunan huruf
"BERASRAMA" supaya A tidak bersebelahan

Diagram illustrating the calculation of the number of permutations of 7 elements where 3 elements are fixed (A, XA, 3A) and 4 elements are permuted (1, 2, 4, 5, 6, 7).

The sequence of elements is: 1, 2, 3, 4, 5, 6, 7.

Elements 1, 2, and 3 are marked with an 'X' and labeled as fixed elements (A, XA, 3A).

Elements 4, 5, 6, and 7 are marked with a circle and labeled as permutable elements (A, XA, 3A, 3A).

The calculation for the number of permutations of the permutable elements is shown as:

$$\rightarrow \binom{7}{3} = 7C_3 = \frac{7!}{3! \cdot 4!}$$

The final result is 35, indicating there are 35 possible permutations of the 7 elements where 3 elements are fixed.

$$\frac{6!}{2!} \times {}^7C_3$$