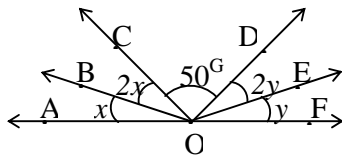


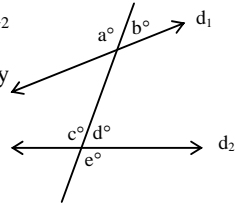
1.



In the figure, $m(\widehat{COD}) = 50^\circ$. What is the measure of \widehat{BOE} ?

- A) 90 B) 115 C) 125 D) 135 E) 150

2. In the given figure, d_1 and d_2 are not parallel. Which one of the followings is certainly **not** true?

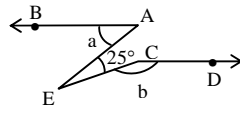


- A) $c = e$ B) $b > d$
 C) $d + e = 180$ D) $a = c$
 E) $c > 180 - b$

3. In the given figure,

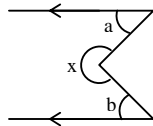
$[AB] \parallel [CD]$ and $\frac{a}{b} = \frac{2}{3}$.

What is the measure of the angle BAE?



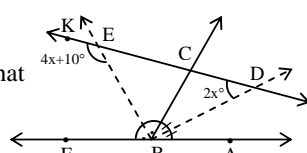
- A) 60 B) 72 C) 80 D) 82 E) 90

4. In the given figure, what is the value of x in terms of a and b ?



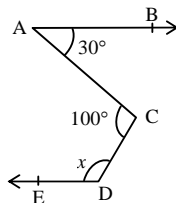
- A) $a + b$ B) $180 - (a + b)$ C) $a - b$
 D) $180 - (a - b)$ E) $360 - (a + b)$

5. In the given figure, $[BD]$ and $[BE]$ are angle bisectors. What is the value of x ?



- A) 35 B) 40 C) 50 D) 60 E) 80

6. In the figure, $[AB] \parallel [DE]$. If $m(\widehat{BAC}) = 30^\circ$ and $m(\widehat{ACD}) = 100^\circ$, what is the measure of angle CDE ?



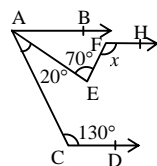
- A) 100° B) 105° C) 110° D) 120° E) 115°

7. In the figure, $[AB] \parallel [FH] \parallel [CD]$. If

$m(\widehat{AEF}) = 70^\circ$,

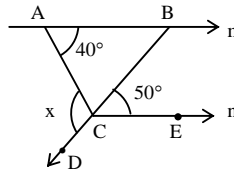
$m(\widehat{ACD}) = 130^\circ$ and

$m(\widehat{CAE}) = 20^\circ$, what is the measure of angle EFH ?



- A) 95° B) 100° C) 110° D) 120° E) 130°

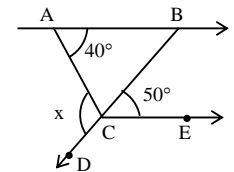
8.



If $m \parallel n$,
 $m(\widehat{BAC}) = 40^\circ$,
 $m(\widehat{BCE}) = 50^\circ$,
 find $m(\widehat{ACD}) = x$.

- A) 70° B) 80° C) 90° D) 110° E) 120°

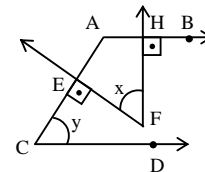
9.



If $m \parallel n$,
 $m(\widehat{BAC}) = 40^\circ$,
 $m(\widehat{BCE}) = 50^\circ$,
 find $m(\widehat{ACD}) = x$.

- A) 70° B) 80° C) 90° D) 110° E) 120°

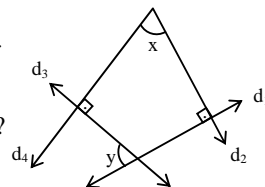
10.



Given that $[AB] \parallel [CD]$,
 $[FE] \perp [AC]$ and $[FH] \perp [AB]$.
 What is the relation between x and y ?

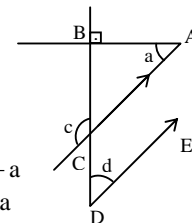
- A) $x = 2y$ B) $x = \frac{y}{2}$
 C) $2x = 3y$ D) $x = y$
 E) $y = \frac{3x}{2}$

11. In the given figure, $d_1 \perp d_2$ and $d_3 \perp d_4$. If $2x - y = 80^\circ$, then what is the value of x ?



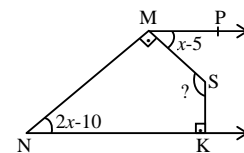
- A) 60 B) 70 C) 72 D) 75 E) 80

12. In the given figure, $AB \perp BD$ and $AC \parallel DE$. What is the measure of d in terms of a and c ?



- A) $d = a - c$ B) $d = 180 - a$
 C) $d = 2c - a$ D) $d = c - 2a$
 E) $d = 180 - (c - a)$

13. Given that $[MP] \parallel [NK]$, $[MN] \perp [MS]$, $[SK] \perp [NK]$, what is the measure of angle MSK ?



- A) 140° B) 135° C) 130° D) 120° E) 115°

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