TB(2A) Ch. 5 Angles Related to Rectilinear Figures GHS Past Paper Question Bank – MC questions TD(2A) Ch. 5 Angles De

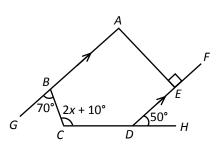
TB(2A) Ch. 5 Angles Related to Rectilinear Figures Multiple Choice Questions

1. [13-14 Final Exam #3]

In the figure, *GBA*, *CDH* and *DEF* are straight lines. Find the value of *x*.

 A. 50°
 B. 55°

 C. 60°
 D. 65°

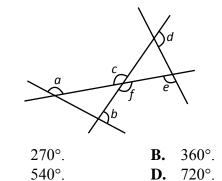


2. [13-14 Final Exam #5]

In the figure, L_1 to L_5 are five straight lines. Which of the following is correct?

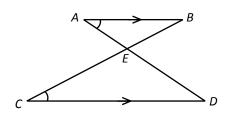
- **A.** $L_1 // L_2$ **B.** $L_1 // L_3$
- **C.** $L_2 // L_3$ **D.** $L_1 // L_2 // L_3$
- 3. [13-14 Final Exam #12]

In the figure, a + b + c + d + e + f =



4. [13-14 Final Exam #16]

In the figure, $\angle BAE = \angle DCE$. *E* is the point of intersection of *AD* and *BC*. Which of the following must be true?



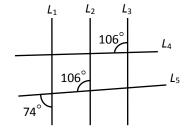
I. AD = BC

A.

C.

- II. $\Delta ABE \sim \Delta CDE$
- III. $\triangle ACE \cong \triangle BDE$

A. I and II only **B.** I and III only



GHS Past Paper Question Bank – MC questions **C.** II and III only **D.** I, II and III

5. [13-14 Final Exam #18]

In the figure, AC = BC. AD and BE intersect at F and bisect $\angle BAC$ and $\angle ABC$ respectively. How many isosceles triangles can be found?

- **A.** 6
- **B.** 7
- **C.** 8
- **D.** 9

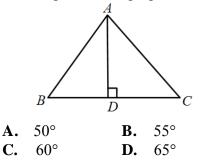
6. [13-14 S.6 Mock Exam #27]

In the figure, *ABCDE* is a regular pentagon. $\triangle CFD$ is equilateral and *BFG* is a straight line. Find $\angle EGB$.

	A
A. 84°	
B. 102°	B E
C. 112°	V V G
D. 118°	C D

7. [14-15 Standardized Test #4]

In the figure, AD is perpendicular to BC and $BD = DC \cdot BC = AC$. Find $\angle BAC$.



8. [14-15 Standardized Test #9]

If an exterior angle of a regular *n*-sided polygon is smaller than its interior angle by 90° , find the value of *n*.

A.	6	В.	7
C.	8	D.	9

9. [14-15 S.6 Mock Exam #7]

If an exterior angle of a regular *n*-sided polygon is half of an interior angle of the polygon, which of the following is/are true?

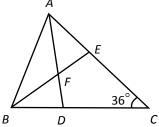
I. The value of n is 6.

II. The difference between an interior angle and an exterior angle of the polygon is 60°.

III. The number of axes of reflectional symmetry of the polygon is 3.

A. I only.

B. I and II only

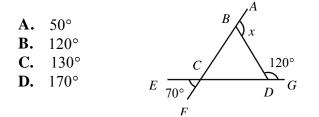


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D. I, II and III

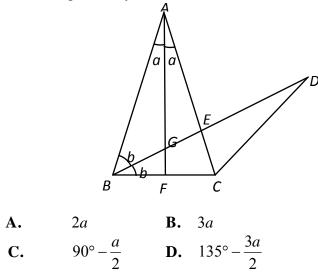
10. [14-15 Final Exam #8]

In the figure, *ABCF* and *ECDG* are straight lines. Find *x*.



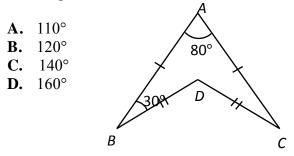
11. [14-15 Final Exam #20]

In the figure, AGF, AEC and BGED are straight lines. AF and BD bisect $\angle BAC$ and $\angle ABC$ respectively. If AB = AC, find $\angle CED$ in terms of a.



12. [15-16 Final Exam #7]

In the figure, AB = AC and BD = CD, $\angle BAC = 80^{\circ}$ and $\angle ABD = 30^{\circ}$. Find $\angle BDC$.



13. [15-16 Final Exam #6]

In the figure, AB // CD. It is given that $\angle ABE = 100^{\circ}$ and $\angle DCE = 120^{\circ}$. Find $\angle BEC$.

A -100° https://wwwCstudy-together.com/edu/

- **A.** 20°
- **B.** 40°
- **C.** 60°
- **D.** 80°

14. [15-16 Final Exam #5]

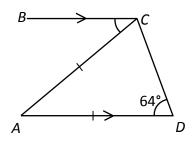
If the value of an interior angle is four times that of the exterior angle of an n-sided regular polygon, find n.

A.	6
B.	7
C.	8
D.	10

15.[16-17 Final Exam #8]

In the figure, AC = AD. If BC // AD, then $\angle ACB =$

- **A.** 52°.
- **B.** 62°.
- **C.** 64°.
- **D.** 78°.



16.[16-17 Final Exam #16]

If the interior angle of a regular polygon is 144° greater than its exterior angle, find the number of sides of the polygon.

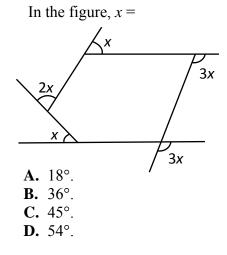
- **A.** 16
- **B.** 18
- **C.** 20
- **D.** 22

17.[17-18 S Test 2 #8]

If an interior angle of a regular *n*-sided polygon is eight times of an exterior angle, which of the following are true?

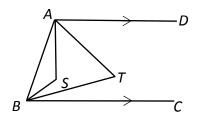
- I. The value of n is 18.
- **II.** An interior angle of the polygon is greater than an exterior angle by 140°.
- **III.** The number of axes of reflectional symmetry of the polygon is 9.
- A. I and II only
- **B.** I and III only
- **C.** II and III only
- **D.** I, II and III

TB(2A) Ch. 5 Angles Related to Rectilinear Figures GHS Past Paper Question Bank – MC questions 18. [17-18 Final #8]



19.[17-18 Final #17]

In the figure, AD //BC, $\angle SAT = \angle TAD$, $\angle SBT = \angle TBC$ and $\triangle ABT$ is an equilateral triangle. Find reflex $\angle ASB$



- **A.** 220°
- **B.** 240°
- **C.** 280°
- **D.** 300°