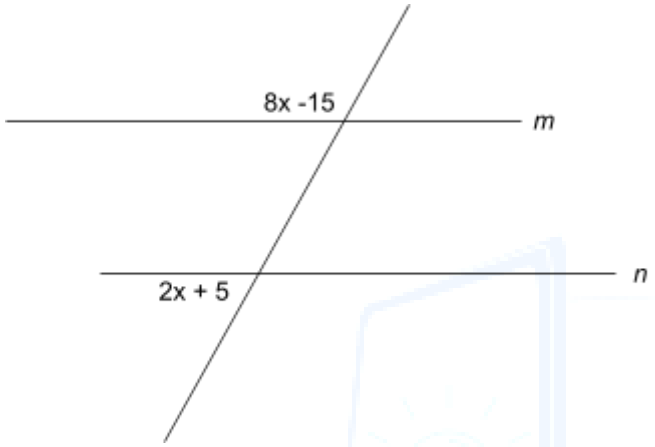
Section 3 - Angles

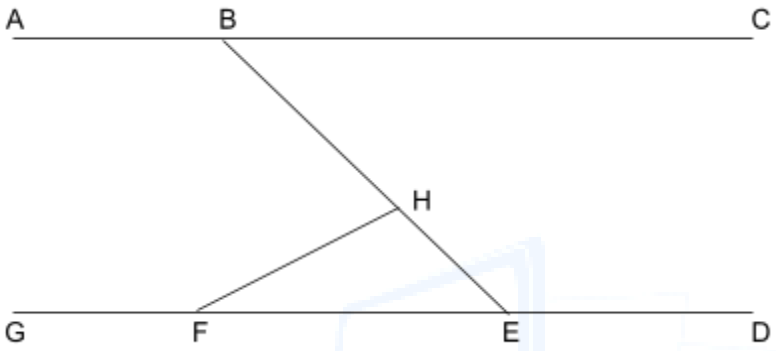
1. Given the drawing below, with line *m // n,* what is the value of x?



a. $3\frac{2}{3}$
b. 17
c. 19
d. 37

SmartThink
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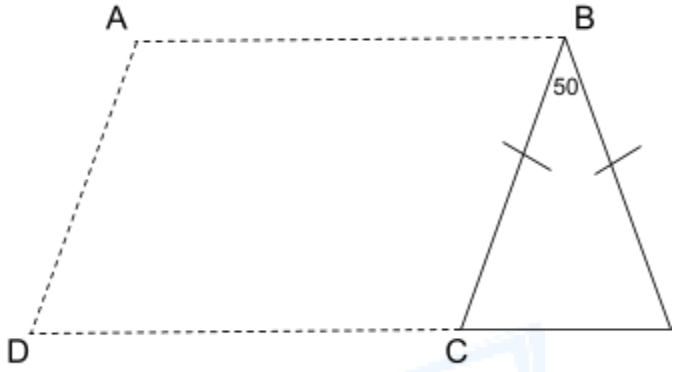
2. In the drawing below, $\overline{AC} \parallel \overline{GD}$. If angle CBE = 45 and angle BHF = 80, then what is the measure of angle HFE?



a. 15
b. 20
c. 35
d. 45

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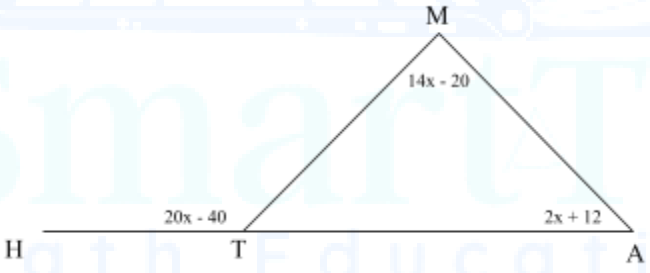
3. Given parallelogram ABCD, what is the value of angle ADC?



a. 50
b. 65
c. 115
d. 130

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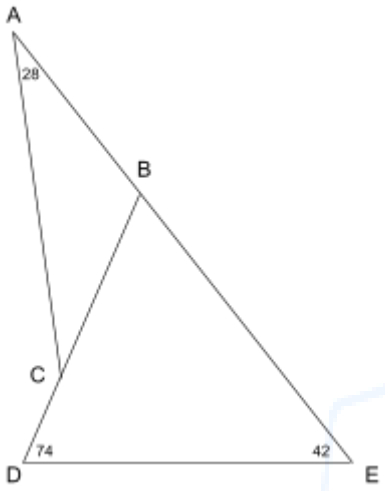
4. What is the value of angle HTM?



a. 8
b. 28
c. 92
d. 120

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5. In the figure below, ABC is a straight line. Find the value of angle ACB.



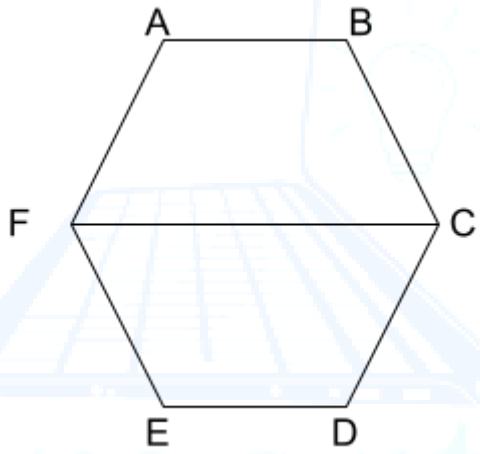
a. 28
b. 36
c. 42
d. 64

6. In triangle MNO angle M = 5x, angle N = 3x - 20, and angle O = 2x + 10. Which of the following must be true based on that information?

   a. M < N < O
   b. O < M < N
   c. N < O < M
   d. M < O < N

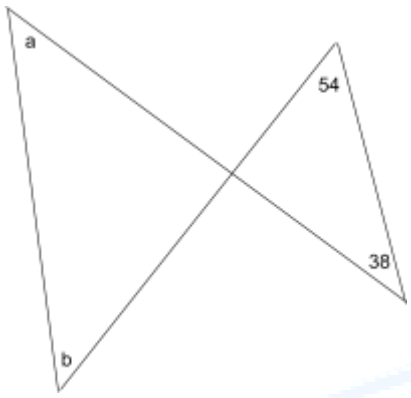
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7. Shape ABCDEF is a regular hexagon. $\overline{FC}$ is an angle bisector. How many degrees is angle BCF?



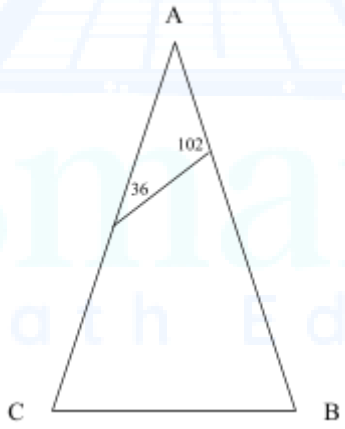
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8. In the figure drawn below, what is the value of a + b?



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9. In the figure below, triangle ABC is an isosceles triangle. What is the value of angle ABC?



END OF SECTION

ANSWER KEY	
Section 3	
Angles	
1. C	6. C
2. C	7. 60
3. B	8. 92
4. D	9. 69
5. B	