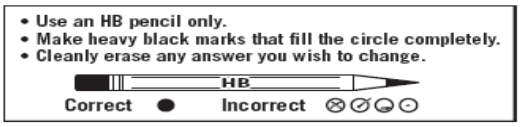
Name: _____

Geometric Relationships

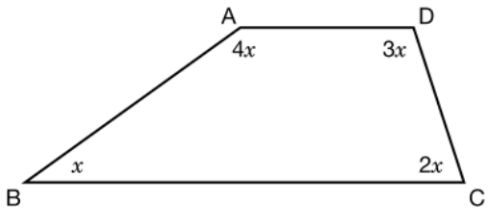
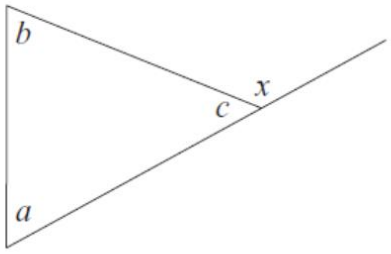
Student Answer Sheet



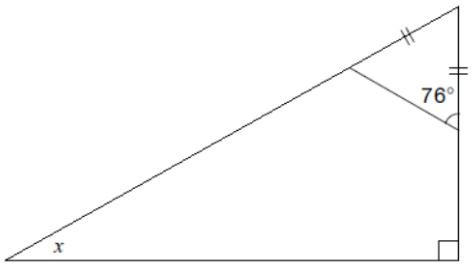
1. Ⓐ Ⓑ Ⓒ Ⓓ
2. Ⓐ Ⓑ Ⓒ Ⓓ
3. Ⓐ Ⓑ Ⓒ Ⓓ
4. Ⓐ Ⓑ Ⓒ Ⓓ
5. Ⓐ Ⓑ Ⓒ Ⓓ
6. Ⓐ Ⓑ Ⓒ Ⓓ
7. Ⓐ Ⓑ Ⓒ Ⓓ
8. Ⓐ Ⓑ Ⓒ Ⓓ
9. Ⓐ Ⓑ Ⓒ Ⓓ
10. Ⓐ Ⓑ Ⓒ Ⓓ
11. Ⓐ Ⓑ Ⓒ Ⓓ
12. Ⓐ Ⓑ Ⓒ Ⓓ
13. Ⓐ Ⓑ Ⓒ Ⓓ
14. Ⓐ Ⓑ Ⓒ Ⓓ
15. Ⓐ Ⓑ Ⓒ Ⓓ

Please answer the multiple choice questions below on the bubble sheet and hand-in your completed work.

Show **and justify** your work in the area provided.

ABCD is a quadrilateral  What is the measure of $\angle BAD$? **F** 108° **G** 120° **H** 132° **J** 144°	
Consider the diagram below. Which of the following equations is always true?  **a** $x = a + b$ **b** $x = b + c$ **c** $x = a - b$ **d** $x = b - c$	

Consider the following diagram.



What is the value of x?

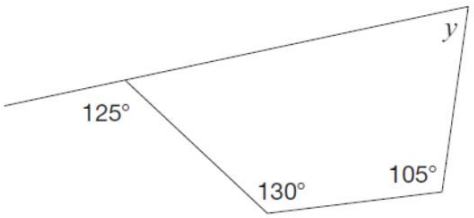
a 14°

b 28°

c 62°

d 76°

Consider the diagram below.



Which of the following is the value of y in the diagram?

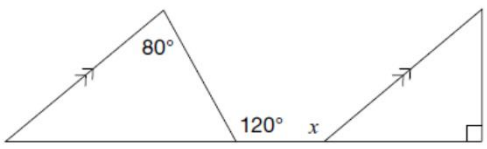
a 55°

b 70°

c 125°

d 130°

Consider the diagram below.



What is the value of x?

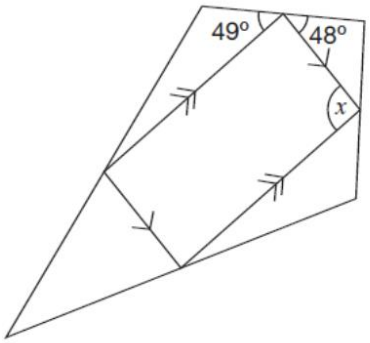
a 80°

b 120°

c 140°

d 170°

A parallelogram is inscribed in a quadrilateral as shown.



What is the value of x?

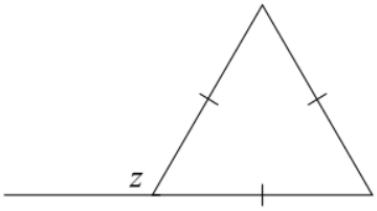
a 48°

b 49°

c 83°

d 97°

What is the value z in the diagram below?



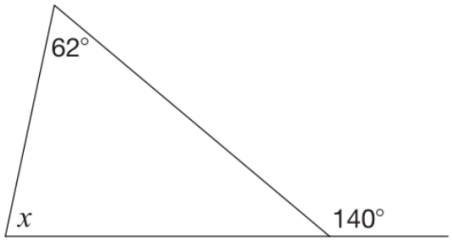
a 60°

b 100°

c 120°

d 140°

What is the value of x in the diagram below?



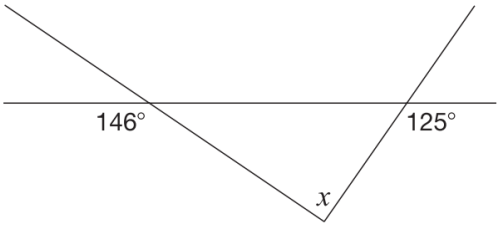
a 40°

b 62°

c 78°

d 118°

What is the value of x in the diagram below?



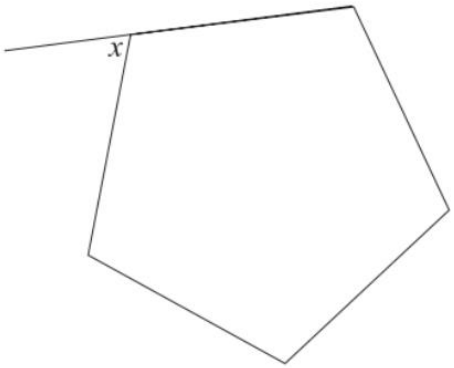
a 91°

b 89°

c 55°

d 34°

A regular pentagon is shown below.



What is the value of x?

a 60°

b 72°

c 108°

d 180°

What is the sum of the interior angles of a 12-sided regular polygon?

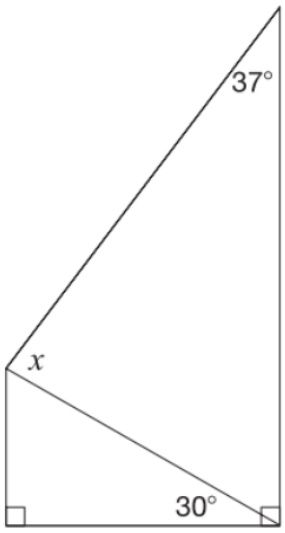
a 1080°

b 1800°

c 1980°

d 2160°

Consider the diagram below.



What is the value of x in the diagram?

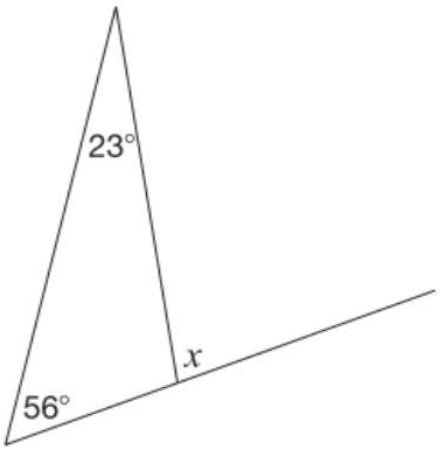
a 30°

b 53°

c 60°

d 83°

Consider the diagram below.



What is the value of x?

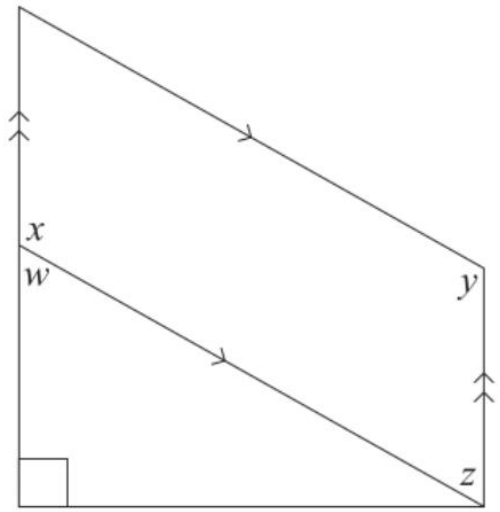
a 23°

b 56°

c 79°

d 101°

Consider the diagram below.



Which equation is true?

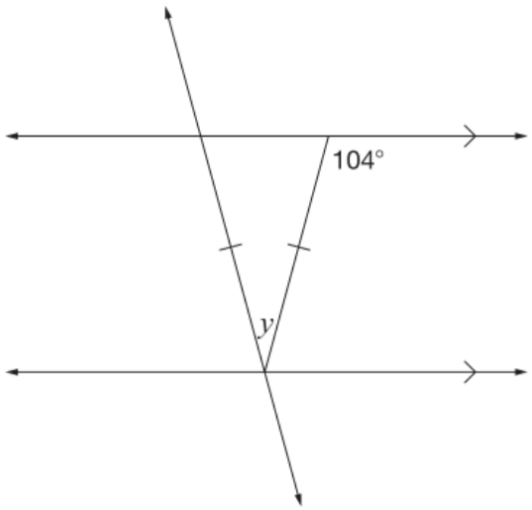
a $x = z$

b $w = y$

c $y + z = 180°$

d $w + z = 180°$

Consider the diagram below.



What is the value of y?

a 28°

b 76°

c 104°

d 152°