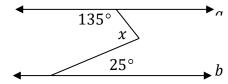
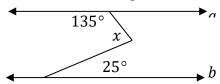
## #1 Geometry - Hustle MA⊚ National Convention 2023

Given  $a \parallel b$  with angle measures as shown. Find the measure of x in degrees.



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Answer : \_\_\_\_\_

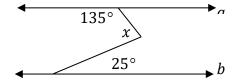
Round 1 2 3 4 5

Answer : \_\_\_\_\_

Round 1 2 3 4 5

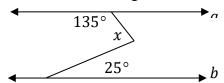
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Answer : \_\_\_\_\_

Round 1 2 3 4 5

Answer : \_\_\_\_\_

#2 Geometry - Hustle
MAΘ National Convention 2023
The apothem of a square is $2\sqrt{2}$ . What is the
area of the square?

#2 Geometry – Hustle	
MA⊕ National Convention 3	2023

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Answer :	Answer :
Round 1 2 3 4 5	Round 1 2 3 4 5

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Answer : \_\_\_\_\_ Answer : \_\_\_\_\_

Round 1 2 3 4 5 Round 1 2 3 4 5

## #3 Geometry - Hustle MA⊕ National Convention 2023

The measures of two supplementary angles are  $m \angle A = (4x + 2)^{\circ}$  and  $m \angle B = (6x + 3)^{\circ}$ . Find the ratio of  $m \angle B$  to  $m \angle A$ .

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Answer	

Round 1 2 3 4 5

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Answer : \_\_\_\_\_

Round 1 2 3 4 5

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Answer : \_\_\_\_\_

Round 1 2 3 4 5

Answer : \_\_\_\_\_

## #4 Geometry – Hustle MA⊕ National Convention 2023

What is the area of the region bounded by the graphs of y = |x| - 5 and y = -|x| + 5?

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Round 1 2 3 4 5

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Answer : \_\_\_\_\_

Round 1 2 3 4 5

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Answer : \_\_\_\_\_

Round 1 2 3 4 5

Answer : \_\_\_\_\_\_

### #5 Geometry - Hustle MA⊕ National Convention 2023

Given triangle ABC. Let D be a point on BC such that AD bisects angle A. If AD = 6, BD = 4, and DC = 3, find AB.

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Answer		

Round 1 2 3 4 5

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Round 1 2 3 4 5

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Answer : \_\_\_\_\_

Answer : \_\_\_\_\_

Round 1 2 3 4 5

### #6 Geometry – Hustle MA® National Convention 2023

Given  $\triangle$  *ABC*  $\sim$   $\triangle$  *RST* and the length of the sides of  $\triangle$  *ABC* are 14, 11, and 4. The longest side of  $\triangle$  *RST* is 28. Find the perimeter of  $\triangle$  *RST*.

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Answer		
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Round 1 2 3 4 5

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Answer : \_\_\_\_\_

Round 1 2 3 4 5

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Answer : \_\_\_\_\_

Round 1 2 3 4 5

Answer : \_\_\_\_\_

### #7 Geometry – Hustle MA⊕ National Convention 2023

A right triangle has hypotenuse of length z, and the legs have lengths x and y. What is the length of the altitude from the right angle to the hypotenuse?

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A	
Answer :	

Round 1 2 3 4 5

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Answer : \_\_\_\_\_\_

Round 1 2 3 4 5

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Answer : \_\_\_\_\_\_

Answer : \_\_\_\_\_

Round 1 2 3 4 5

### #8 Geometry – Hustle MA⊕ National Convention 2023

For a positive integer x, a 3-sided figure has side lengths of 2x - 7, 4x + 2, and 5x + 9. What is the sum of the values of x for which this figure is NOT a triangle?

#8 Geometry - Hustle	
MA	2023

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Answer		

Round 1 2 3 4 5

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Round 1 2 3 4 5

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Answer : \_\_\_\_\_

Round 1 2 3 4 5

Answer:\_\_\_\_

### #9 Geometry – Hustle MA© National Convention 2023

What is the smaller angle (in degrees) between the hour and minute hand of an analog clock at time 6: 15?

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What is the smaller angle (in degrees) between the hour and minute hand of an analog clock at time 6: 15?

_		
Answer	•	

Round 1 2 3 4 5

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Round 1 2 3 4 5

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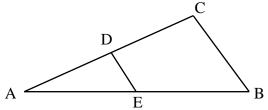
Answer : \_\_\_\_\_

Answer : \_\_\_\_\_

Round 1 2 3 4 5

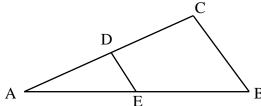
### #10 Geometry - Hustle MA⊕ National Convention 2023

In triangle ACB, AD = DC and AE = EB. If DE = 4x + 30 and CB = 10x + 20, then give the length of BC.



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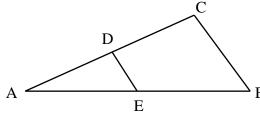


Answer : \_\_\_\_\_\_

Round 1 2 3 4 5

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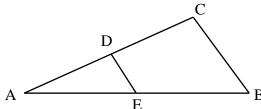


Answer : \_\_\_\_\_\_

Round 1 2 3 4 5

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Answer : \_\_\_\_\_

Round 1 2 3 4 5

Answer : \_\_\_\_\_

### #11 Geometry - Hustle MA® National Convention 2023

A trapezoid has height 12 and legs 13 and 15. The shorter base has length 10. What is the length of the longer base?

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Round 1 2 3 4 5

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Round 1 2 3 4 5

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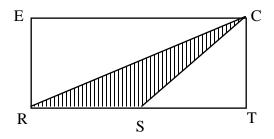
Answer : \_\_\_\_\_

Answer : \_\_\_\_\_

Round 1 2 3 4 5

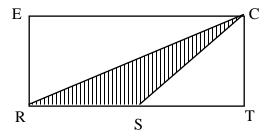
### #12 Geometry - Hustle MA⊕ National Convention 2023

Find the perimeter of the shaded region in rectangle RECT where ER = 1, TR is twice ER, and S is the midpoint of RT.



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Answer : \_\_\_\_\_

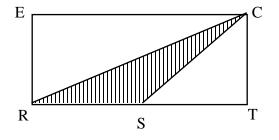
Round 1 2 3 4 5

Answer : \_\_\_\_\_

Round 1 2 3 4 5

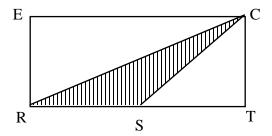
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Answer : \_\_\_\_\_

Round 1 2 3 4 5

Answer : \_\_\_\_\_

### #13 Geometry – Hustle MA© National Convention 2023

How many regular polygons have exterior angles that are integers and interior angles that are not integers?

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How many regular polygons have exterior angles that are integers and interior angles that are not integers?

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Answer		
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Round 1 2 3 4 5

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Answer : \_\_\_\_\_\_

Round 1 2 3 4 5

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How many regular polygons have exterior angles that are integers and interior angles that are not integers?

Answer : \_\_\_\_\_

Round 1 2 3 4 5

Answer : \_\_\_\_\_

#14 Geometry	y – Hustle
MA@ National	Convention 2023

A diagonal of a rectangle has length  $2\sqrt{10}$  and the area of the rectangle is 12. What are the dimensions of the rectangle?

#14 Geometry - Hustle
MA⊕ National Convention 2023

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Answer :			
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	answei	:	

Round 1 2 3 4 5

### #14 Geometry – Hustle MA© National Convention 2023

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Answer : \_\_\_\_\_

Round 1 2 3 4 5

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Answer : \_\_\_\_\_

Round 1 2 3 4 5

Answer : \_\_\_\_\_\_

## #15 Geometry - Hustle MA® National Convention 2023

Find the number of sides in a polygon such that the sum of the interior angles is eight times the sum of the exterior angles.

### #15 Geometry - Hustle MA⊕ National Convention 2023

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Answer		
7112 W C1		

Round 1 2 3 4 5

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Round 1 2 3 4 5

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Answer : \_\_\_\_\_\_

Round 1 2 3 4 5

Round 1 2 3 4 5

Answer : \_\_\_\_\_

## #16 Geometry - Hustle MA® National Convention 2023

Find the positive difference between the supplement and the complement of an acute angle with measure x degrees.

### #16 Geometry – Hustle MA® National Convention 2023

Find the positive difference between the supplement and the complement of an acute angle with measure x degrees.

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Answer	•	

Round 1 2 3 4 5

## #16 Geometry - Hustle MA⊕ National Convention 2023

Find the positive difference between the supplement and the complement of an acute angle with measure x degrees.

Answer : \_\_\_\_\_

Round 1 2 3 4 5

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Find the positive difference between the supplement and the complement of an acute angle with measure x degrees.

Answer : \_\_\_\_\_

Answer : \_\_\_\_\_

Round 1 2 3 4 5

#17 Geometry	y – Hustle
MA@ National	Convention 2023

What is the lateral area of a rectangular pyramid with height 9 and base dimensions  $24 \times 80$ ?

#17 Geometry - Hustle	
MAO National Convention	2023

What is the lateral area of a rectangular pyramid with height 9 and base dimensions  $24 \times 80$ ?

Answer :				Answer :								
Round	1	2	3	4	5	Round	1	2	3	4	5	

# **#17 Geometry - Hustle**

MA© National Convention 2023
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MAO National Convention 2023
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Answer : \_\_\_\_\_ Answer : \_\_\_\_\_

Round 1 2 3 4 5 Round 1 2 3 4 5

#### #18 Geometry – Hustle MA® National Convention 2023

Find the converse of the inverse of the contrapositive of the inverse of the converse of the converse of the converse of the converse of the contrapositive of a statement.

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Find the converse of the inverse of the contrapositive of the inverse of the converse of the converse of the converse of the converse of the contrapositive of a statement.

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Answer		
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Round 1 2 3 4 5

#### #18 Geometry - Hustle MA⊕ National Convention 2023

Find the converse of the inverse of the contrapositive of the inverse of the converse of the converse of the converse of the converse of the contrapositive of a statement.

Answer : \_\_\_\_\_

Round 1 2 3 4 5

#### #18 Geometry - Hustle MA⊕ National Convention 2023

Find the converse of the inverse of the contrapositive of the inverse of the converse of the converse of the converse of the converse of the contrapositive of a statement.

Answer : \_\_\_\_\_\_

Answer : \_\_\_\_\_

Round 1 2 3 4 5

### #19 Geometry - Hustle MA⊕ National Convention 2023

A right circular cylinder with its diameter equal to its height is inscribed in a right circular cone. The cone has diameter 10 and altitude 12, and the axes of the cylinder and cone coincide. Find the radius of the cylinder.

### #19 Geometry - Hustle MA⊕ National Convention 2023

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Answer		
7112 W C1		

Round 1 2 3 4 5

### #19 Geometry - Hustle MA© National Convention 2023

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Answer : \_\_\_\_\_

Round 1 2 3 4 5

## #19 Geometry - Hustle MA® National Convention 2023

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Answer : \_\_\_\_\_

Round 1 2 3 4 5

Answer : \_\_\_\_\_

## #20 Geometry - Hustle MA⊕ National Convention 2023

A rhombus contains a 120-degree angle. What is the ratio of the length of its longer diagonal to the length of its shorter diagonal?

### #20 Geometry – Hustle MA⊕ National Convention 2023

A rhombus contains a 120-degree angle. What is the ratio of the length of its longer diagonal to the length of its shorter diagonal?

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Answer		
7112 W C1		

Round 1 2 3 4 5

### #20 Geometry - Hustle MA⊚ National Convention 2023

A rhombus contains a 120-degree angle. What is the ratio of the length of its longer diagonal to the length of its shorter diagonal? Answer : \_\_\_\_\_

Round 1 2 3 4 5

### #20 Geometry - Hustle MA⊖ National Convention 2023

A rhombus contains a 120-degree angle. What is the ratio of the length of its longer diagonal to the length of its shorter diagonal?

Answer : \_\_\_\_\_\_

Round 1 2 3 4 5

Answer : \_\_\_\_\_\_

#21 Geometry - Hustle
MAO National Convention 2023

What is the volume of a regular octahedron with edge length 7?

## #21 Geometry - Hustle MA® National Convention 2023

What is the volume of a regular octahedron with edge length 7?

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Answer	=	

Round 1 2 3 4 5

## #21 Geometry - Hustle MA© National Convention 2023

What is the volume of a regular octahedron with edge length 7?

Answer : \_\_\_\_\_\_

Round 1 2 3 4 5

## #21 Geometry - Hustle MA® National Convention 2023

What is the volume of a regular octahedron with edge length 7?

Answer : \_\_\_\_\_

Answer : \_\_\_\_\_

Round 1 2 3 4 5

#22 Geometry	y – Hustle
MA@ National	Convention 2023

Find the radius of the circle circumscribed about an equilateral triangle of side 12.

#22 Geometry – Hustle	
MAO National Convention 2	2023

Find the radius of the circle circumscribed about an equilateral triangle of side 12.

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Answer	

Round 1 2 3 4 5

### #22 Geometry - Hustle MA⊕ National Convention 2023

Find the radius of the circle circumscribed about an equilateral triangle of side 12.

Answer : \_\_\_\_\_

Round 1 2 3 4 5

## #22 Geometry - Hustle MA⊕ National Convention 2023

Find the radius of the circle circumscribed about an equilateral triangle of side 12.

Answer : \_\_\_\_\_

Answer : \_\_\_\_\_

Round 1 2 3 4 5

#23 Geometry	y – Hustle
MA@ National	Convention 2023

In circle M, chords  $\overline{RS}$  and  $\overline{TU}$  intersect at X. If RX = 15, XS = 18, and TX : XU = 3:10, then find XU.

### #23 Geometry - Hustle MA⊕ National Convention 2023

In circle M, chords  $\overline{RS}$  and  $\overline{TU}$  intersect at X. If RX = 15, XS = 18, and TX : XU = 3:10, then find XU.

Answer :			
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	answei	:	

Round 1 2 3 4 5

### #23 Geometry - Hustle MA⊕ National Convention 2023

In circle M, chords  $\overline{RS}$  and  $\overline{TU}$  intersect at X. If RX = 15, XS = 18, and TX : XU = 3:10, then find XU.

Answer : \_\_\_\_\_

Round 1 2 3 4 5

### #23 Geometry - Hustle MA⊕ National Convention 2023

In circle M, chords  $\overline{RS}$  and  $\overline{TU}$  intersect at X. If RX = 15, XS = 18, and TX : XU = 3:10, then find XU.

Answer : \_\_\_\_\_

Round 1 2 3 4 5

Answer : \_\_\_\_\_

### #24 Geometry - Hustle MA⊕ National Convention 2023

DOKR is a rhombus with the measure of angle D equal to  $60^{\circ}$  and DO = 4. If X is the midpoint of segment DO, find the area of quadrilateral OXRK.

### #24 Geometry - Hustle MA⊕ National Convention 2023

*DOKR* is a rhombus with the measure of angle *D* equal to  $60^{\circ}$  and DO = 4. If *X* is the midpoint of segment *DO*, find the area of quadrilateral *OXRK*.

Answer :	

Round 1 2 3 4 5

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Round 1 2 3 4 5

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Answer : \_\_\_\_\_\_

Round 1 2 3 4 5

Answer : \_\_\_\_\_

## #25 Geometry – Hustle MA⊕ National Convention 2023

Answer : \_\_\_\_\_

Round 1 2 3 4 5

Each of the statements below can be completed

with the word always, sometimes or never. How many of the statements below will be completed with the word sometimes?	with the word always, sometimes or never. How many of the statements below will be completed with the word sometimes?		
A square is a rectangle.	A square is a rectangle.		
The diagonals of a rectangle arecongruent.	The diagonals of a rectangle arecongruent.		
The diagonals of a parallelogrambisect the angles.	The diagonals of a parallelogrambisect the angles.		
A trapezoidhas three congruent sides.	A trapezoidhas three congruent sides.		
Answer :	Answer :		
Round 1 2 3 4 5	Round 1 2 3 4 5		
#25 Geometry – Hustle MA⊕ National Convention 2023	#25 Geometry – Hustle MA⊕ National Convention 2023		
Each of the statements below can be completed	Each of the statements below can be completed		
with the word always, sometimes or never.	with the word always, sometimes or never.		
How many of the statements below will be completed with the word sometimes?	How many of the statements below will be completed with the word sometimes?		
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The diagonals of a parallelogrambisect the angles.	The diagonals of a parallelogrambisect the angles.		
A trapezoidhas three congruent sides.	A trapezoidhas three congruent sides.		

**#25 Geometry - Hustle** 

Answer : \_\_\_\_\_

Round 1 2 3 4 5

MA© National Convention 2023

Each of the statements below can be completed