

#1 Geometry – Hustle
MA@ National Convention 2026

Rhombus MATH has $|AH| = 120$ and a perimeter of 244. Find the length of MT.

Answer : _____

Round 1 2 3 4 5

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Round 1 2 3 4 5

#2 Geometry – Hustle
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The volumes of two cubes have the ratio $\frac{512}{343}$.
What is the corresponding ratio of their surface areas?

Answer : _____

Round 1 2 3 4 5

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#3 Geometry – Hustle
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Convex pentagon ACUTE has interior angles that measure $(14x)^\circ$, $(6x + 70)^\circ$, 150° , 105° , and 90° . What is the measure of the largest exterior angle of the pentagon?

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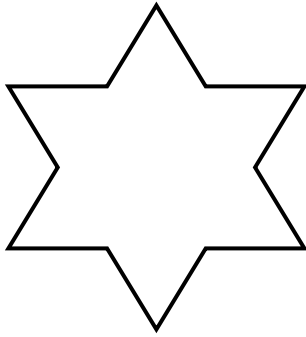
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#4 Geometry – Hustle
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How many lines of reflective symmetry are there in the following shape, all of whose sides are congruent in length and whose interior angles alternate between 60 and 240 degrees?

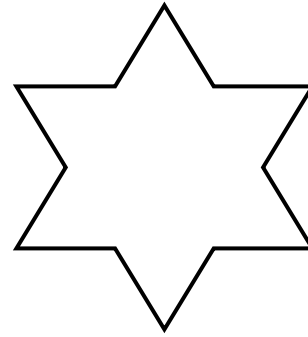


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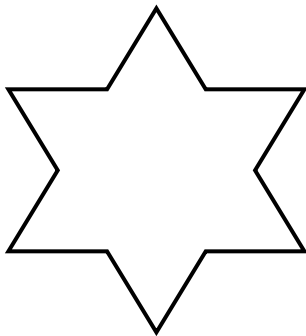


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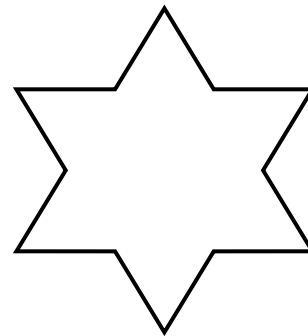


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Answer : _____

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#5 Geometry – Hustle
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Three vertices of a parallelogram are $(2, 2)$, $(5, 6)$, and $(-7, 2)$. Find the area enclosed by the parallelogram.

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#6 Geometry – Hustle
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At 6:55 pm, the hands of a clock form a smaller angle measuring x° . What is x ?

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#7 Geometry – Hustle
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How many regular polygons have fewer than 44 diagonals?

Answer : _____

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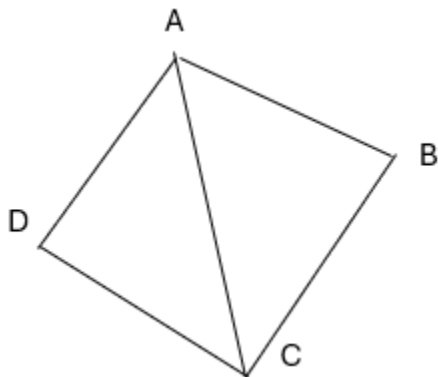
How many regular polygons have fewer than 44 diagonals?

Answer : _____

Round 1 2 3 4 5

#8 Geometry – Hustle
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Given convex quadrilateral ABCD with interior angles $\angle D = 56^\circ$ and $\angle B = 66^\circ$. If $\angle CAB = 54^\circ$ and $\angle DAC = 59^\circ$, which line segment in this diagram is the longest?

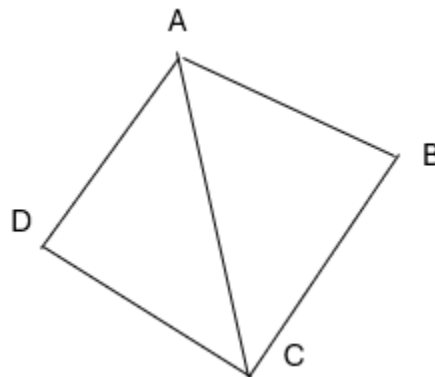


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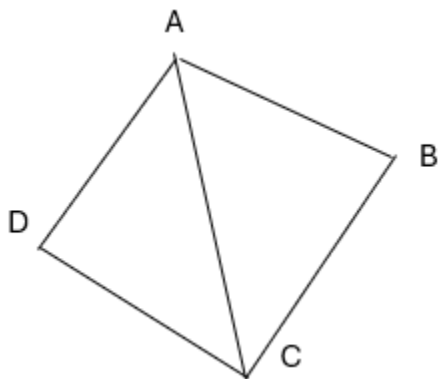


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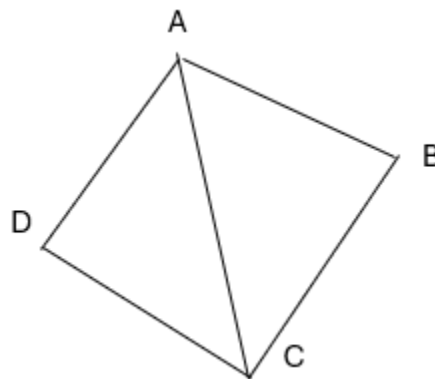


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#9 Geometry – Hustle
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Three non-overlapping equilateral triangles with side length 2 are joined along their edges to form an isosceles trapezoid. What is the length of a diagonal of the trapezoid?

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#10 Geometry – Hustle
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$\triangle BSH$ has side lengths $|BS| = 5$, $|SH| = 12$, and $|BH| = 13$. The altitude of this triangle from S to BH divides BH into segments BL and LH . Find the ratio of the length of BL to the length of LH .

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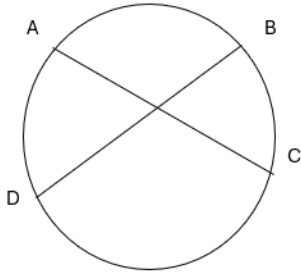
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#11 Geometry – Hustle
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Chords AC and BD intersect at point E. If $AE = 6$, $CE = x + 2$, $DE = 2x - 5$, and $EB = 4$, what is the length of BD?

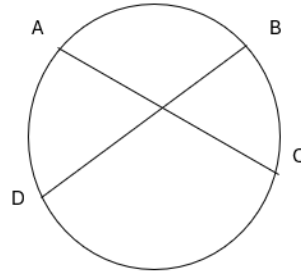


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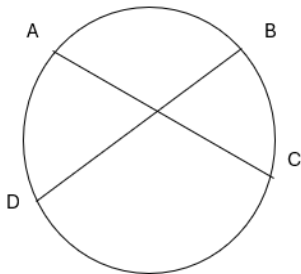


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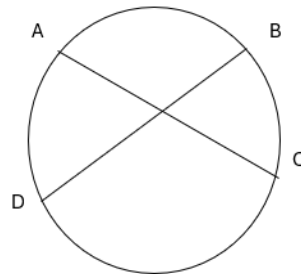


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#12 Geometry – Hustle
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$\triangle DEF$ has interior angle $\angle D = 135^\circ$ formed by sides of lengths 10 and 18. What is the area enclosed by the triangle?

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#13 Geometry – Hustle
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Let $M = (0, 0)$, $N = (-3, 2)$, and $P = (5, 4)$. Find the number of lattice points in the interior (not on a side) of $\triangle MNP$.

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#14 Geometry – Hustle
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A triangle has all integral side lengths and two sides measure 7 and 10. What is the sum of all possible lengths for the third side?

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#15 Geometry – Hustle
MA@ National Convention 2026

A rectangle and a rhombus have the same perimeter. The rhombus has diagonals of lengths 12 and 16. The rectangle has a diagonal of $\sqrt{202}$. Find the positive difference between the length and width of the rectangle.

Answer : _____

Round 1 2 3 4 5

#15 Geometry – Hustle
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A rectangle and a rhombus have the same perimeter. The rhombus has diagonals of lengths 12 and 16. The rectangle has a diagonal of $\sqrt{202}$. Find the positive difference between the length and width of the rectangle.

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Round 1 2 3 4 5

#16 Geometry – Hustle
MA© National Convention 2026

A dartboard has concentric circles with diameters 3, 5, and 7. What is the probability that a thrown dart will land in the shaded ring?



Answer : _____

Round 1 2 3 4 5

#16 Geometry – Hustle
MA© National Convention 2026

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Round 1 2 3 4 5

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Round 1 2 3 4 5

#17 Geometry – Hustle
MA@ National Convention 2026

A sphere and a cube have the same surface area. Find the ratio of the length of an edge of the cube to the length of a diameter of the sphere. Rationalize your answer.

Answer : _____

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#18 Geometry – Hustle
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Line segment AB has a length of 60. Point C is the midpoint of AB, point D is the midpoint of line segment AC, and point E is the midpoint of line segment BD. Find the length of line segment AE.

Answer : _____

Round 1 2 3 4 5

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Round 1 2 3 4 5

#19 Geometry – Hustle
MA® National Convention 2026

If a central angle of 72° of a circle intercepts an arc of the circle of length 18 cm, what is the length of the radius of the circle?

Answer : _____

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#20 Geometry – Hustle
MA® National Convention 2026

$\triangle ABC$ is an equilateral triangle with side length 6. Let $ABDE$ be a square in the plane of $\triangle ABC$ with point C in its interior. Find the area of the region inside the square but outside the triangle.

Answer : _____

Round 1 2 3 4 5

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MA® National Convention 2026

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#21 Geometry – Hustle
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Two tangents are drawn to a circle from point B; they intersect the circle at points H and S. A third tangent to the circle intersects segment BH at W, segment BS at C, and the circle at P. If $|BH| = 17$, then what is the perimeter of $\triangle BWC$?

Answer : _____

Round 1 2 3 4 5

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#22 Geometry – Hustle
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Find the area enclosed by the trapezoid with base lengths 29 and 79 and leg lengths 30 and 40.

Answer : _____

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#23 Geometry – Hustle
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What is the sum of the absolute values of the x- and y-intercepts of the line through the points of intersection of these two circles?

$$(x - 2)^2 + (y - 2)^2 = 16$$

$$(x + 2)^2 + (y - 6)^2 = 25$$

Answer : _____

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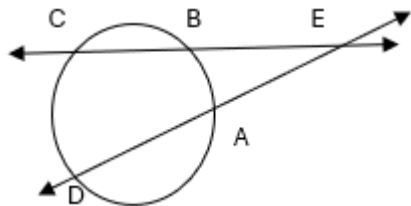
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#24 Geometry – Hustle
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Two secant lines of a circle intersect at point E, as shown below. Given that the ratio of the minor arcs of the circle is $AB:BC:CD:DA = 3:4:5:6$, what is the degree measure of $\angle CED$?

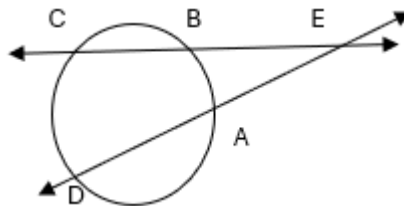


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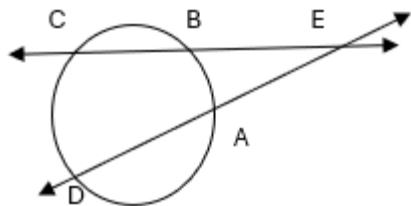


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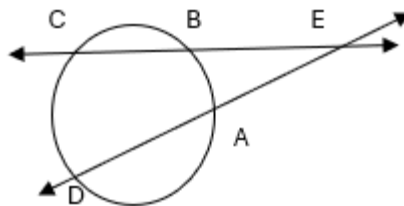


Answer : _____

Round 1 2 3 4 5

#24 Geometry – Hustle
MA@ National Convention 2026

Two secant lines of a circle intersect at point E, as shown below. Given that the ratio of the minor arcs of the circle is $AB:BC:CD:DA = 3:4:5:6$, what is the degree measure of $\angle CED$?



Answer : _____

Round 1 2 3 4 5

#25 Geometry – Hustle
MA@ National Convention 2026

ABC is a triangle with $AB = 7$, $BC = 24$, and $CA = 25$. M is the midpoint of side AC and N is the foot of the altitude from B to AC. If the length of MN can be written as p/q , where p and q are relatively prime positive integers, find $p - q$.

Answer : _____

Round 1 2 3 4 5

#25 Geometry – Hustle
MA@ National Convention 2026

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Answer : _____

Round 1 2 3 4 5

#25 Geometry – Hustle
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Answer : _____

Round 1 2 3 4 5

#25 Geometry – Hustle
MA@ National Convention 2026

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Answer : _____

Round 1 2 3 4 5

