

#1 Geometry – Hustle
MAΘ National Convention 2022

What is the area of a triangle whose side lengths are 1515, 2020, and 2525?

Answer : _____

Round 1 2 3 4 5

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#2 Geometry – Hustle
MAΘ National Convention 2022

What is $\sin 30^\circ + \cos 60^\circ$?

Answer : _____

Round 1 2 3 4 5

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What is $\sin 30^\circ + \cos 60^\circ$?

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Round 1 2 3 4 5

#3 Geometry – Hustle
MAΘ National Convention 2022

What is the area of the largest triangle that can be inscribed in a semicircle of radius 10, where the diameter is the base?

Answer : _____

Round 1 2 3 4 5

#3 Geometry – Hustle
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Round 1 2 3 4 5

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Round 1 2 3 4 5

#4 Geometry – Hustle
MAΘ National Convention 2022

How many lattice points lie on the graph of the equation $x^2 + y^2 = 25$?

Answer : _____

Round 1 2 3 4 5

#4 Geometry – Hustle
MAΘ National Convention 2022

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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 : _____

Round 1 2 3 4 5

#5 Geometry – Hustle
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What is the sum of all possible positive angle measures, in degrees, whose squares are equal to their complements?

Answer : _____

Round 1 2 3 4 5

#5 Geometry – Hustle
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Round 1 2 3 4 5

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Round 1 2 3 4 5

#6 Geometry – Hustle
MAΘ National Convention 2022

Fill in the blank: In $\triangle ABC$ and $\triangle DEF$, if $AB = DE$, $BC = EF$, and $\angle A = \angle D = \underline{\hspace{1cm}}$ degrees, then $\triangle ABC \cong \triangle DEF$. If any angle measure suffices, write “any”; if none suffices, write “none”.

Answer : _____

Round 1 2 3 4 5

#6 Geometry – Hustle
MAΘ National Convention 2022

Fill in the blank: In $\triangle ABC$ and $\triangle DEF$, if $AB = DE$, $BC = EF$, and $\angle A = \angle D = \underline{\hspace{1cm}}$ degrees, then $\triangle ABC \cong \triangle DEF$. If any angle measure suffices, write “any”; if none suffices, write “none”.

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Round 1 2 3 4 5

#7 Geometry – Hustle
MAΘ National Convention 2022

A cube with edge length 4 has a circular hole with radius 1 drilled through it, connecting the centers of two opposite faces. What is the surface area of the modified cube?

Answer : _____

Round 1 2 3 4 5

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A cube with edge length 4 has a circular hole with radius 1 drilled through it, connecting the centers of two opposite faces. What is the surface area of the modified cube?

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Answer : _____

Round 1 2 3 4 5

#8 Geometry – Hustle
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What is the measure of each interior angle of a 180-sided regular polygon?

Answer : _____

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Round 1 2 3 4 5

#9 Geometry – Hustle
MAΘ National Convention 2022

What's the area of the rhombus with one side length measuring 25 and one diagonal measuring 14?

Answer : _____

Round 1 2 3 4 5

#9 Geometry – Hustle
MAΘ National Convention 2022

What's the area of the rhombus with one side length measuring 25 and one diagonal measuring 14?

Answer : _____

Round 1 2 3 4 5

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Round 1 2 3 4 5

#10 Geometry – Hustle
MAΘ National Convention 2022

Isosceles trapezoid $EPIC$ has $EP = PI = IC = 1$
and $CE = 2$. What is its area?

Answer : _____

Round 1 2 3 4 5

#10 Geometry – Hustle
MAΘ National Convention 2022

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Round 1 2 3 4 5

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Round 1 2 3 4 5

#11 Geometry – Hustle
MAΘ National Convention 2022

Super Radz places six stones at the vertices of a regular hexagon. If Richard chooses three at random without replacement, what is the probability the three he chose form a right triangle?

Answer : _____

Round 1 2 3 4 5

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MAΘ National Convention 2022

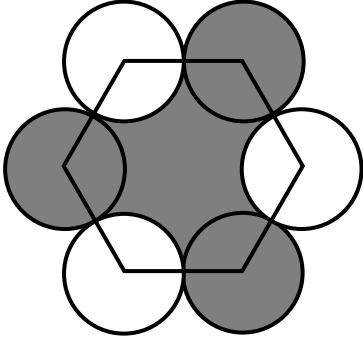
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Round 1 2 3 4 5

#12 Geometry – Hustle
MAΘ National Convention 2022

If the hexagon shown below is a regular hexagon with side length 2, and each circular arc shown has radius 1, then what is the area of the shaded region?

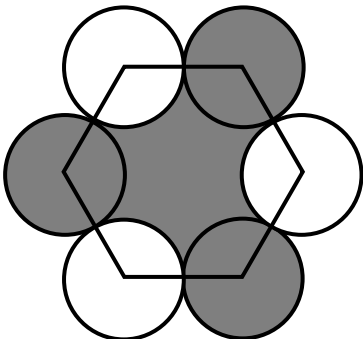


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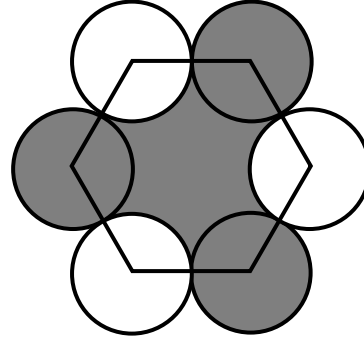


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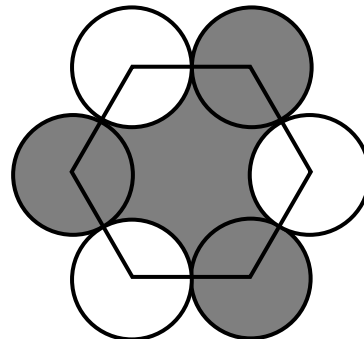


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Answer : _____

Round 1 2 3 4 5

#13 Geometry – Hustle
MAΘ National Convention 2022

A particular square pyramid consists of a square with side length 10 for the base and four isosceles triangles with legs of length $\sqrt{194}$ for the lateral faces. What is its volume?

Answer : _____

Round 1 2 3 4 5

#13 Geometry – Hustle
MAΘ National Convention 2022

A particular square pyramid consists of a square with side length 10 for the base and four isosceles triangles with legs of length $\sqrt{194}$ for the lateral faces. What is its volume?

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#14 Geometry – Hustle
MAΘ National Convention 2022

A particular satellite's circular orbit around a planet is concentric with the spherical planet, which has radius 2020 miles. The distance from the orbit to the planet is 5 miles. The satellite operator now wants the satellite to be 1 foot farther away from the planet at all points of its orbit. In feet, how much farther will the satellite travel in a single revolution now, compared to its previous orbit?

Answer : _____

Round 1 2 3 4 5

#14 Geometry – Hustle
MAΘ National Convention 2022

A particular satellite's circular orbit around a planet is concentric with the spherical planet, which has radius 2020 miles. The distance from the orbit to the planet is 5 miles. The satellite operator now wants the satellite to be 1 foot farther away from the planet at all points of its orbit. In feet, how much farther will the satellite travel in a single revolution now, compared to its previous orbit?

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Answer : _____

Round 1 2 3 4 5

#15 Geometry – Hustle
MAΘ National Convention 2018

A circle has a chord of length 6. The part of the chord's perpendicular bisector inside the circle is divided into segments in the ratio 1:3 by the chord's intersection. What is the area of the circle?

Answer : _____

Round 1 2 3 4 5

#15 Geometry – Hustle
MAΘ National Convention 2022

A circle has a chord of length 6. The part of the chord's perpendicular bisector inside the circle is divided into segments in the ratio 1:3 by the chord's intersection. What is the area of the circle?

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Round 1 2 3 4 5

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MAΘ National Convention 2022

A circle has a chord of length 6. The part of the chord's perpendicular bisector inside the circle is divided into segments in the ratio 1:3 by the chord's intersection. What is the area of the circle?

Answer : _____

Round 1 2 3 4 5

#16 Geometry – Hustle
MAΘ National Convention 2022

Two buffalo are tied to stakes in the coordinate plane such that one can only roam the region $x^2 + y^2 \leq 9$ and the other can only roam the region $(x - 5)^2 + (y - 7)^2 \leq 16$. What is the maximum possible distance the buffalo can be from each other?

Answer : _____

Round 1 2 3 4 5

#16 Geometry – Hustle
MAΘ National Convention 2022

Two buffalo are tied to stakes in the coordinate plane such that one can only roam the region $x^2 + y^2 \leq 9$ and the other can only roam the region $(x - 5)^2 + (y - 7)^2 \leq 16$. What is the maximum possible distance the buffalo can be from each other?

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Round 1 2 3 4 5

#17 Geometry – Hustle
MAΘ National Convention 2022

What is the area of the parallelogram whose diagonals intersect at an angle of 30° and have lengths 9 and 12?

Answer : _____

Round 1 2 3 4 5

#17 Geometry – Hustle
MAΘ National Convention 2022

What is the area of the parallelogram whose diagonals intersect at an angle of 30° and have lengths 9 and 12?

Answer : _____

Round 1 2 3 4 5

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Answer : _____

Round 1 2 3 4 5

#17 Geometry – Hustle
MAΘ National Convention 2022

What is the area of the parallelogram whose diagonals intersect at an angle of 30° and have lengths 9 and 12?

Answer : _____

Round 1 2 3 4 5

#18 Geometry – Hustle
MAΘ National Convention 2022

What is the area of a triangle whose side lengths are 10, 17, and 21?

Answer : _____

Round 1 2 3 4 5

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Round 1 2 3 4 5

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Round 1 2 3 4 5

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MAΘ National Convention 2022

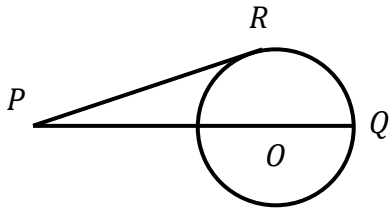
What is the area of a triangle whose side lengths are 10, 17, and 21?

Answer : _____

Round 1 2 3 4 5

#19 Geometry – Hustle
MAΘ National Convention 2022

In circle O below, secant PQ passes through O , and PR is tangent to O at R . If $\angle QPR = 47^\circ$, what is the degree measure of minor arc QR ?

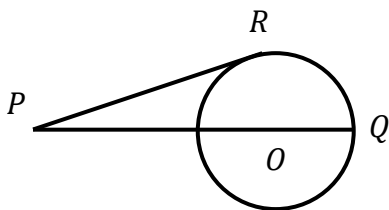


Answer : _____

Round 1 2 3 4 5

#19 Geometry – Hustle
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In circle O below, secant PQ passes through O , and PR is tangent to O at R . If $\angle QPR = 47^\circ$, what is the degree measure of minor arc QR ?

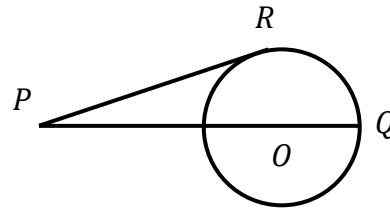


Answer : _____

Round 1 2 3 4 5

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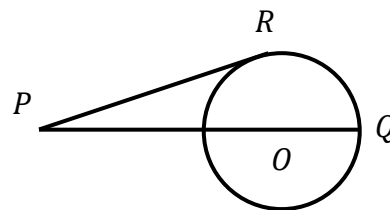


Answer : _____

Round 1 2 3 4 5

#19 Geometry – Hustle
MAΘ National Convention 2022

In circle O below, secant PQ passes through O , and PR is tangent to O at R . If $\angle QPR = 47^\circ$, what is the degree measure of minor arc QR ?



Answer : _____

Round 1 2 3 4 5

#20 Geometry – Hustle
MAΘ National Convention 2022

. The two bases of an isosceles trapezoid with area 150 have length 18 and 12. What is the length of one of the trapezoid's diagonals?

Answer : _____

Round 1 2 3 4 5

#20 Geometry – Hustle
MAΘ National Convention 2022

. The two bases of an isosceles trapezoid with area 150 have length 18 and 12. What is the length of one of the trapezoid's diagonals?

Answer : _____

Round 1 2 3 4 5

#20 Geometry – Hustle
MAΘ National Convention 2022

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Round 1 2 3 4 5

#20 Geometry – Hustle
MAΘ National Convention 2022

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Answer : _____

Round 1 2 3 4 5

#21 Geometry – Hustle
MAΘ National Convention 2022

What is the area of a triangle with vertices (3,2), (-4, -1), and (0, 6)?

Answer : _____

Round 1 2 3 4 5

#21 Geometry – Hustle
MAΘ National Convention 2022

What is the area of a triangle with vertices (3,2), (-4, -1), and (0, 6)?

Answer : _____

Round 1 2 3 4 5

#21 Geometry – Hustle
MAΘ National Convention 2022

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Answer : _____

Round 1 2 3 4 5

#21 Geometry – Hustle
MAΘ National Convention 2022

What is the area of a triangle with vertices (3,2), (-4, -1), and (0, 6)?

Answer : _____

Round 1 2 3 4 5

#22 Geometry – Hustle
MAΘ National Convention 2022

In triangle AHS , medians AW and HI intersect at N .
What is the ratio of the area of $SWNI$ to the area of AHS ?

Answer : _____

Round 1 2 3 4 5

#22 Geometry – Hustle
MAΘ National Convention 2022

In triangle AHS , medians AW and HI intersect at N .
What is the ratio of the area of $SWNI$ to the area of AHS ?

Answer : _____

Round 1 2 3 4 5

#22 Geometry – Hustle
MAΘ National Convention 2022

In triangle AHS , medians AW and HI intersect at N .
What is the ratio of the area of $SWNI$ to the area of AHS ?

Answer : _____

Round 1 2 3 4 5

#22 Geometry – Hustle
MAΘ National Convention 2022

In triangle AHS , medians AW and HI intersect at N .
What is the ratio of the area of $SWNI$ to the area of AHS ?

Answer : _____

Round 1 2 3 4 5

#23 Geometry – Hustle
MAΘ National Convention 2022

Where is the circumcenter of the polygon with vertices $(1, 2)$, $(2, -1)$, $(-2, 1)$, and $(-1, -2)$? Give your answer as an ordered pair (x, y) .

Answer : _____

Round 1 2 3 4 5

#23 Geometry – Hustle
MAΘ National Convention 2022

Where is the circumcenter of the polygon with vertices $(1, 2)$, $(2, -1)$, $(-2, 1)$, and $(-1, -2)$? Give your answer as an ordered pair (x, y) .

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

#24 Geometry – Hustle
MAΘ National Convention 2022

In $\triangle ABC$, D is on AB such that $AD : DB = 1 : 1$, E is on BC such that $BE : EC = 1 : 1$, and F is on CA such that $CF : FA = 4 : 3$. What is the ratio of the area of $\triangle DEF$ to the area of $\triangle ABC$?

Answer : _____

Round 1 2 3 4 5

#24 Geometry – Hustle
MAΘ National Convention 2022

In $\triangle ABC$, D is on AB such that $AD : DB = 1 : 1$, E is on BC such that $BE : EC = 1 : 1$, and F is on CA such that $CF : FA = 4 : 3$. What is the ratio of the area of $\triangle DEF$ to the area of $\triangle ABC$?

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Round 1 2 3 4 5

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Answer : _____

Round 1 2 3 4 5

#25 Geometry – Hustle
MAΘ National Convention 2022

Inside a right circular conical tent with base radius 10 and height 24, a fly sits on a point along the base. Among all points on the surface that are equidistant from the apex and the base, it then flies in a line to the one that is farthest away from its current position. How far does it travel?

Answer : _____

Round 1 2 3 4 5

#25 Geometry – Hustle
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Inside a right circular conical tent with base radius 10 and height 24, a fly sits on a point along the base. Among all points on the surface that are equidistant from the apex and the base, it then flies in a line to the one that is farthest away from its current position. How far does it travel?

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Round 1 2 3 4 5

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