

#1 Geometry – Hustle
MAΘ National Convention 2025

A circle has a diameter of 50 cm.
How far from the center of the
circle is a chord measuring 14 cm?

Answer : _____

Round 1 2 3 4 5

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#2 Geometry – Hustle
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A circle has an area of 49π . What is the perimeter of a square inscribed in the circle?

Answer : _____

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#3 Geometry – Hustle
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In circle O, $m\angle ABD = 53^\circ$ and chords \overline{AB} and \overline{AD} are congruent. What is the degree measure of minor arc \widehat{BD} ?

Answer : _____

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#4 Geometry – Hustle
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In $\triangle RST$, $m\angle S = 120^\circ$, $r = 10$ and $t = 12$. Find s .

Answer : _____

Round 1 2 3 4 5

#4 Geometry – Hustle
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Round 1 2 3 4 5

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Round 1 2 3 4 5

#5 Geometry – Hustle

MAΘ National Convention 2025

A square is inscribed in a circle. A point inside the circle is chosen at random. What is the probability that the chosen point is inside the circle but outside the square?

Answer : _____

Round 1 2 3 4 5

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#6 Geometry – Hustle
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What is the measure of an interior angle of a regular polygon with 15 sides (in degrees)?

Answer : _____

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What is the measure of an interior angle of a regular polygon with 15 sides (in degrees)?

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#7 Geometry – Hustle
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If the lines $3x + 4y = 10$ and $5x - ky = 6$ form adjacent sides of a rectangle, then what is the value of k ?

Answer : _____

Round 1 2 3 4 5

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#8 Geometry – Hustle
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Find the distance between the
lines $y = \frac{3}{4}x - 4$ and $y = \frac{3}{4}x + 1$.

Answer : _____

Round 1 2 3 4 5

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#9 Geometry – Hustle
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Ahbi took a random walk through the streets of Orlando. If he started at the convention hotel and walked 5 miles west, 3 miles north, 4 miles east, 5 miles north, 6 miles east, and 3 miles south, how far was he from the hotel, as the crow flies?

Answer : _____

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#10 Geometry – Hustle
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What is the volume of a sphere
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edge is 4?

Answer : _____

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#11 Geometry – Hustle
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In convex quadrilateral ABCD,
 $\angle A = 58^\circ$, $\angle C = 68^\circ$, $\angle ADB = 57^\circ$, *and* $\angle CDB = 60^\circ$. Which
segment in the figure is the
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#12 Geometry – Hustle
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What is the sum of the number of faces of a dodecahedron, the number of edges of a hexagonal pyramid, and the number of vertices of a cube?

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Round 1 2 3 4 5

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#13 Geometry – Hustle
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Find the sum of the altitudes of a triangle whose sides are 7, 24, and 25.

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#14 Geometry – Hustle
MAΘ National Convention 2025

M (-2, 5), A (3, 1) and T (-1, -3)
form the vertices of a triangle.
What is the area of the triangle?

Answer : _____

Round 1 2 3 4 5

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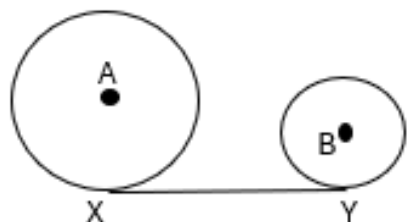
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#15 Geometry – Hustle
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The radii of circles A and B are 10 cm and 5 cm, respectively. \overline{XY} is a 20 cm long common external tangent. Find the exact value of AB.

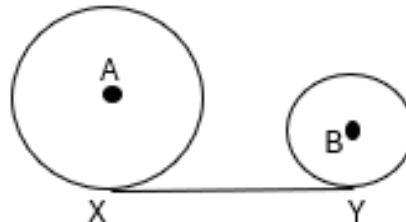


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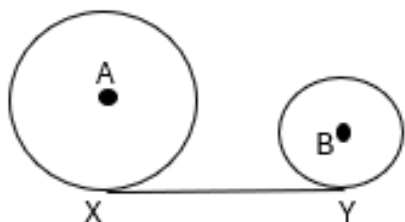


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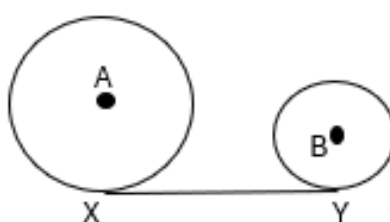


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#16 Geometry – Hustle
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A frustum of a cone is 5 units high. It has an upper base with a radius of 6 and a lower base with a circumference of 20π . What is the volume of the small cone that was cut off to form the frustum?

Answer : _____

Round 1 2 3 4 5

#16 Geometry – Hustle
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A frustum of a cone is 5 units high. It has an upper base with a radius of 6 and a lower base with a circumference of 20π . What is the volume of the small cone that was cut off to form the frustum?

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In the Cartesian plane, point A lies on the graph of $(x - 2)^2 + (y + 5)^2 = 20$. Point B lies on the graph of $(x - 7)^2 + (y - 5)^2 = 9$. Find the shortest possible distance between A and B .

Answer : _____

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#18 Geometry – Hustle
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If the radius of a circle is increased by 200%, by what percent is the area increased?

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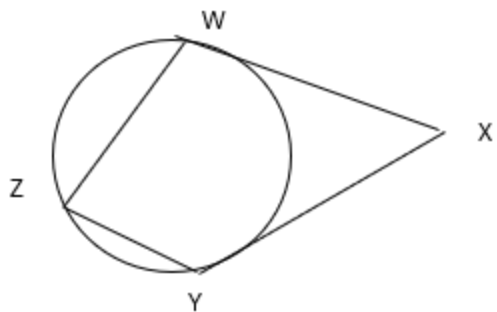
If the radius of a circle is increased by 200%, by what percent is the area increased?

Answer : _____

Round 1 2 3 4 5

#19 Geometry – Hustle
MAΘ National Convention 2025

Given: \overline{WX} and \overline{XY} are tangents
 $m\angle Z = 50^\circ$
 Find $m\angle X$ in degrees.

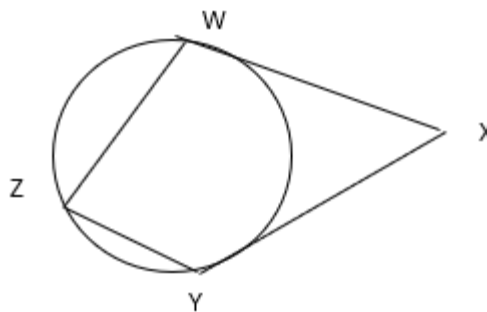


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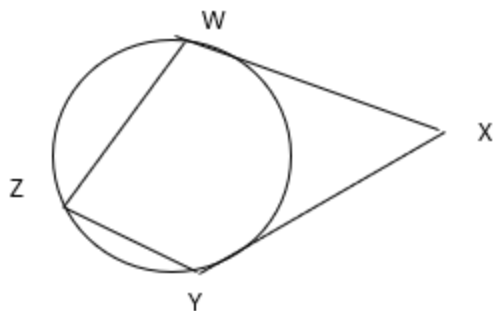


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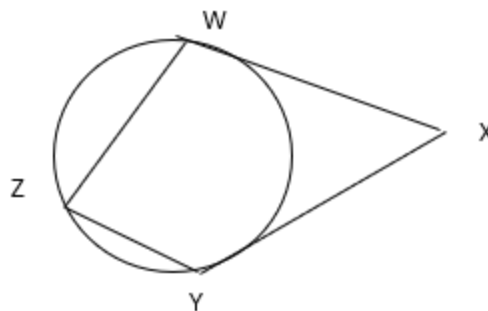


Answer : _____

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#19 Geometry – Hustle
MAΘ National Convention 2025

Given: \overline{WX} and \overline{XY} are tangents
 $m\angle Z = 50^\circ$
 Find $m\angle X$ in degrees.



Answer : _____

Round 1 2 3 4 5

#20 Geometry – Hustle
MAΘ National Convention 2025

Find the center of the circle that passes through the points $(-3, -4)$, $(2, -7)$, and $(8, 3)$.

Answer : _____

Round 1 2 3 4 5

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Answer : _____

Round 1 2 3 4 5

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Answer : _____

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#21 Geometry – Hustle
MAΘ National Convention 2025

A rectangle has adjacent sides measuring x and $2x - 3$ units. If the area of the rectangle is 65 square units, what is the perimeter of the rectangle?

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Round 1 2 3 4 5

#21 Geometry – Hustle
MAΘ National Convention 2025

A rectangle has adjacent sides measuring x and $2x - 3$ units. If the area of the rectangle is 65 square units, what is the perimeter of the rectangle?

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#22 Geometry – Hustle
MAΘ National Convention 2025

The diagonals of a rhombus are 16 cm and 28 cm. What is the area of the rhombus?

Answer : _____

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#23 Geometry – Hustle
MAΘ National Convention 2025

$A(-4, 0)$, $B(8, 0)$, and $C(0, 10)$ form a triangle. If the altitude from A to \overline{BC} is written in standard form, $Rx + Sy = T$ with $R > 0$, what is the value of $RS - T$?

Answer : _____

Round 1 2 3 4 5

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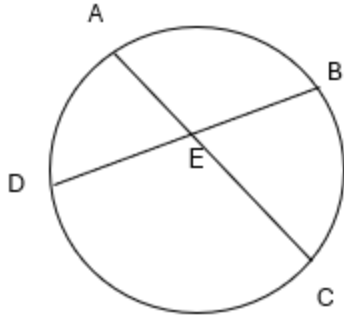
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#24 Geometry – Hustle
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$AE = a + 4$, $CE = a + 2$, $BE = a + 1$,
and $DE = a + 6$. What is the value
of a ?

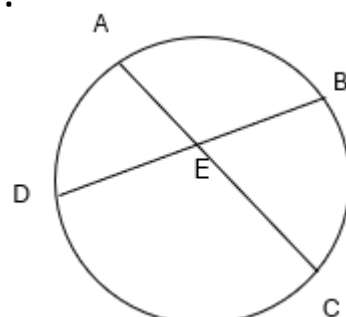


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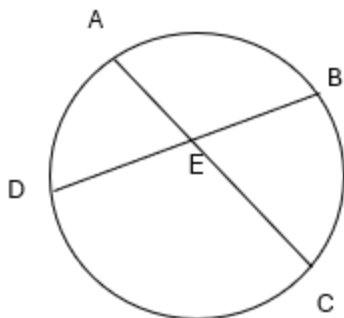


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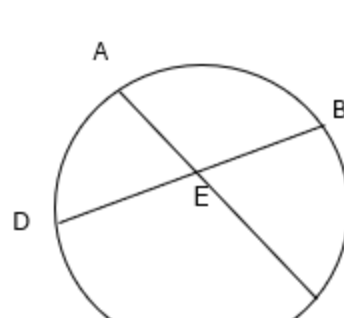


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#25 Geometry – Hustle
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A dartboard is formed by three concentric circles with radii 2, 4, and 6. The center circle is worth 20 points, the middle ring is worth 16 points, and the largest ring is worth 12 points. Assuming a randomly thrown dart hits the board, what is its expected value?

Answer : _____

Round 1 2 3 4 5

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