170. A tin can is 4 inches tall and 3 inches across at its widest point. What is the area of a label that covers the entire side of the can?

A 9π in.^{2}

B 12π in.^{2}

C 24π in.^{2}

D 36π in.^{2}

171. A cone has a height of 4 units and its base has a radius of 3 units. What is its total surface area?

A 24π units^2

B 21π units^2

C 15π units^2

D 12π units^2

172.
The surface area of a spherical ball is 100π units. Find its radius.

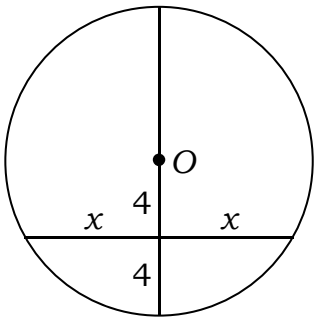
A 5 units

B 10 units

C $5\sqrt{3}$ units

D $10\sqrt{3}$ units

130. O is the center of the circle shown. Find x.



A $2\sqrt{3}$

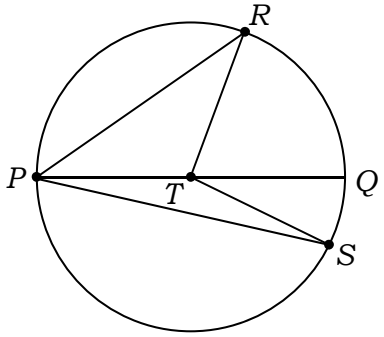
B $4\sqrt{3}$

C 4

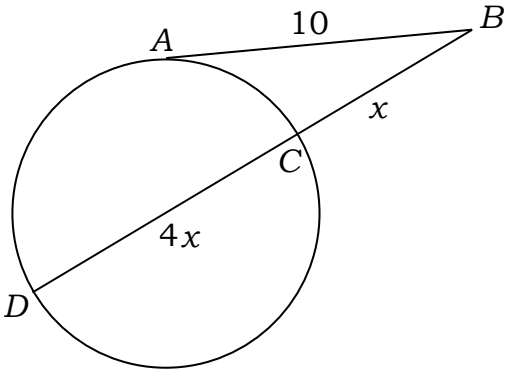
D 8

162. Circle T has diameter PQ. mRQ = 70 and mQS = 26. Find m∠RPS.

A 44°
B 48°
C 96°
D 140°



129. On the diagram of the circle below, AB is a tangent. Find the value of x.



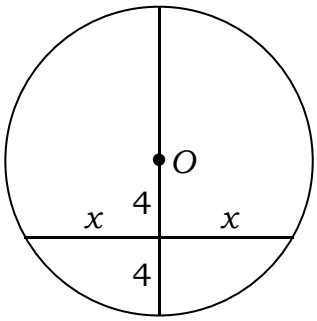
A 2

B $2\sqrt{5}$

C 5

D $4\sqrt{5}$

130. O is the center of the circle shown. Find x.



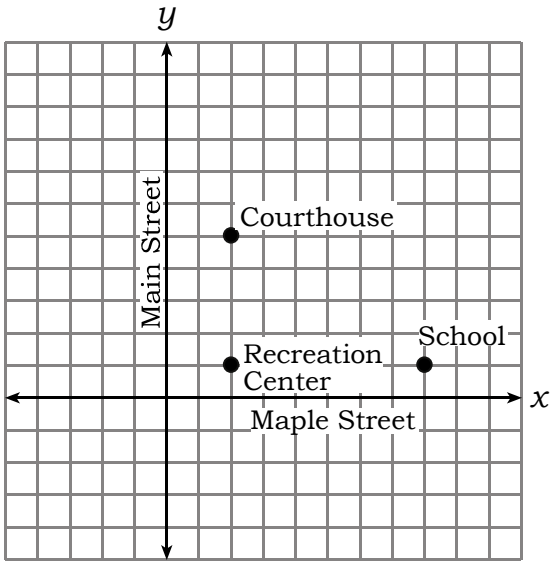
A $2\sqrt{3}$

B $4\sqrt{3}$

C 4

D 8

104. A town wants to build a park that is equidistant from the recreation center, the school, and the courthouse. According to the diagram, which set of coordinates represents the location for the park?

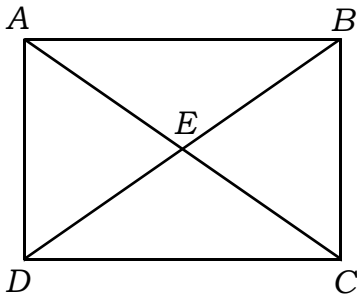


A (3, 2)
B (8, 5)
C (5, 3)
D (7, 5)

78. Polygon ABCD is a rectangle. The

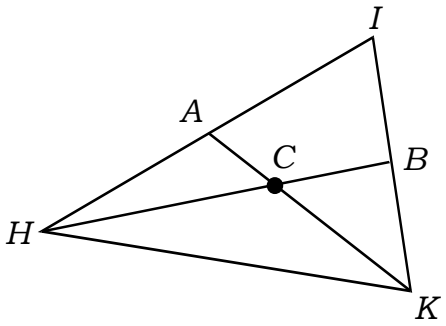
m∠DEC = 110°. What is m∠CBE?

A 45°
B 55°
C 70°
D 110°



102. HB is a median of ∆HIK. C is the centroid point of ∆HIK. If HB = 24 cm, what is the length of HC?

A 24 cm

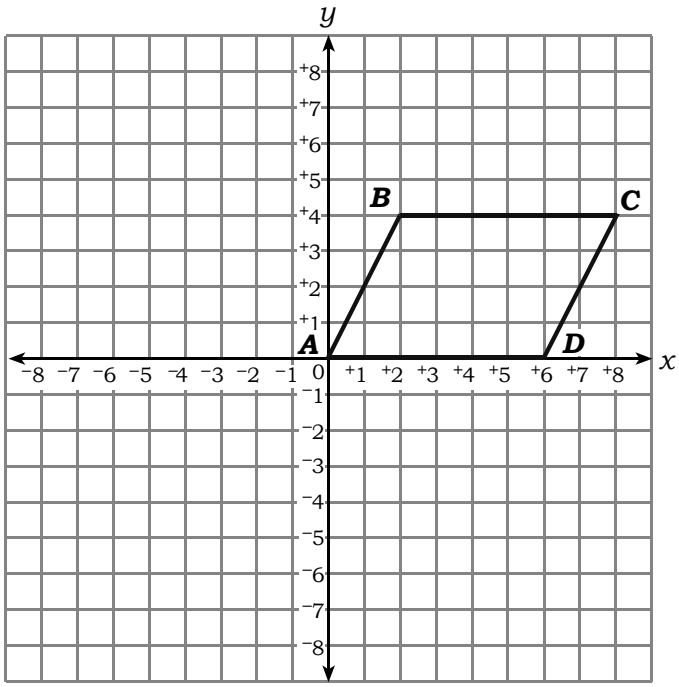


B 16 cm
C 8 cm
D 4 cm

75. Polygon ABCD is a parallelogram. The measure of $\angle C$ is 20 greater than the measure of $\angle D$. What is the measure of $\angle A$?

A 20°
B 80°
C 100°
D 120°

76. The vertices of parallelogram *ABCD* have coordinates as shown. What are the coordinates of the intersection point of its diagonals?



A (3, 2)
B (4, 2)
C (5, 3)
D (6, 3)

77. In parallelogram EFGH, the length of EF = 15x – 5 units, FG = 4x + 10 units, and GH = 90 – 4x units. What is the length of HE?

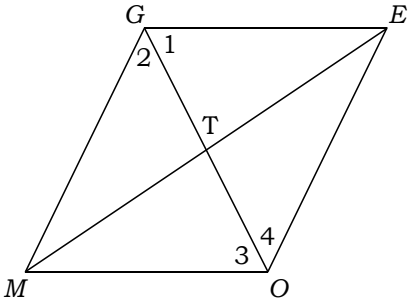
A 70 units
B 30 units
C 10 units
D 5 units

Geometry EOC review

7) ABCD is a parallelogram. The coordinates of the vertices are as follows: A(-1, 2), B(1, 3) and C(4, 0). At what point will AC and BD intersect?

A (3/2, 1)
B (2, -1)
C (3/2, -1)
D (2,1)

30) Find the missing reason in the proof.



Statements	Reasons
1. $\angle 1 \cong \angle 3$; $\angle 2 \cong \angle 4$	1. Given
2. GE || OM; GM || OE	2. _____
3. GEOM is a parallelogram	3. Definition of Parallelogram

A If alternate interior angles are congruent, then lines are parallel.
B If alternate exterior angles are congruent, then lines are parallel.
C If corresponding angles are congruent, then lines are parallel.
D If vertical angles are congruent, then lines are parallel.

68. Rectangular solids described in terms of length, width, and height (*l*, *w*, *h*) are listed below. Which pair would be similar?

A (4, 6, 9) and (8, 12, 20)
B (15, 12, 20) and (9, 8, 12)
C (8, 5, 3) and (20, 12.5, 9.5)
D (6, 7.5, 9) and (4, 5, 6)