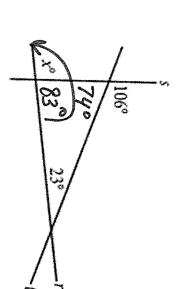


of 36. What is the length of minor arc AC? The circle above with center O has a circumference

360° (36)

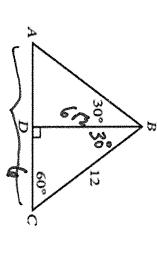
garanteers

Intersecting lines r, s, and t are shown below.



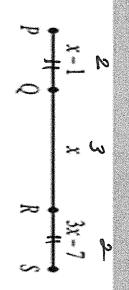
What is the value of x?





In $\triangle ABC$ above, what is the length of \overline{AD} ?

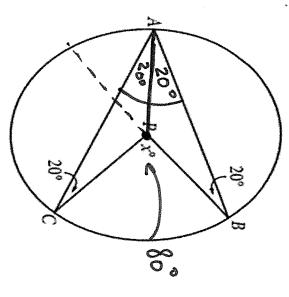
D) 6√3



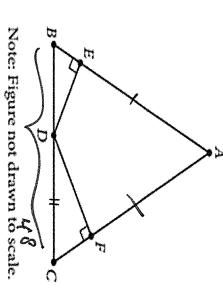
Note: Figure not drawn to scale.

On
$$\overline{PS}$$
 above $\overline{PQ} = RS$) What is the length of \overline{PS} ?

$$X_{-1} = 3x - 7$$
 $X_{-1} = 2x - 7$
 $X_{-1} = 2$

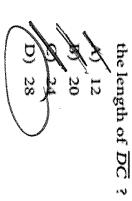


Point P is the center of the circle in the figure above. What is the value of x?



Triangle ABC above is isosceles with AB = AC and

BC = 48. The ratio of DE to DF is 5: 7. What is



A= 2(b, +b2). h A=== (10+20).6

In quadrilateral ABCD above, \overline{BC} is parallel to \overline{AD} , A = 90 and AB = CD. If BC and AD were each doubled and BE was reduced by 50 percent, how would the area of

ABCD change?

Given the right triangle ABC above, which of the

A) The area of ABCD would be decreased by 50 percent.

- The area of ABCD would be increased by
- The area of ABCD would not change
- D) The area of ABCD would be multiplied by 2.

 $A = \frac{1}{2} (20 + 40).3$ following is equal to $\frac{b}{a}$? はいる。 B) sin A I no Hypoterne

D) tan B

In the figure above, \overline{BD} is parallel to \overline{AE} . What is the longth of CE?

CE 30

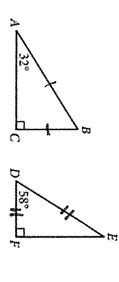
le;

In the xy-plane, the graph of

 $2x^2 - 6x + 2y^2 + 2y = 45$ is a circle. What is the Complete the square

radius of the circle?

- 2
- B) 6.5
- D) \(\sigma \)



(bs(53.13) = 0.6

353.10

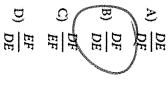
18.36 ox.

X°= 36.87

Sinx = 0,6

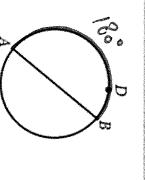
Triangles ABC and DEF are shown above. Which

of the following is equal to the ratio $\frac{BC}{AB}$?





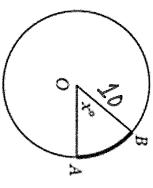




7 00

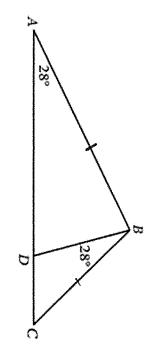
the cosine of y° ? In the triangle above, the sine of x° is 0.6. What is 360° MT

In the circle above, segment AB is a diameter. If the radius of the circle? length of arc \widehat{ADB} is 8π , what is the length of the



Note: Figure not drawn to scale.

between 5 and 6, what is one possible integer radius 10. If the length of arc \widehat{AB} (shown in bold) is In the figure above, the circle has center O and has



In the figure above, which of the following ratios has

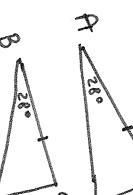
the same value as $\frac{AB}{BC}$?





C) $\frac{AD}{BD}$

8/8



which of the following could be an equation of the radius of 3 and the center of the circle is at (4, -2), circle? A circle is graphed in the xy-plane. If the circle has a $(x-H)^{2}+(y+2)^{2}=9$

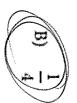
12 のどなってもなったら

about 11 times the radius of planet Earth. Assuming is shown above. The radius of the planet Jupiter is larger is the volume of Jupiter than the volume of that planets are spheres, about how many times The formula for the volume of a sphere with radius r

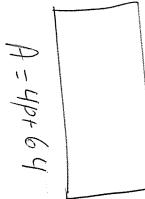
(M) Jupitu = (111) contr

- ((9)1,331
- D) 1,75
- V= 4-T(11r)3

the path's area? In the design, how many feet will the perimeter of the the path to the perimeter p, in feet, of the fountain. with a 4-foot-wide path around it. The equation fountain increase for each additional square foot of A = 4p + 64 will relate the area A, in square feet, of A landscaper is designing a rectangular fountain







D) 64

70

Note: Figure not drawn to scale.

circle. What is the value of x ? length of arc \overline{BC} if $\frac{2}{5}$ of the circumference of the In the circle above, point A is the center and the

Snoiger behand Point C is the center of the circle above. What fraction of the area of the circle is the area of the

forther of a

 $2x^2 - 6x + 2y^2 + 2y = 45$ is a circle. What is the In the xy-plane, the graph of

falorio of the circle?

C) 1/40

05/ (a

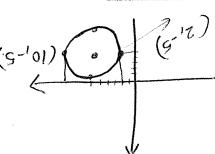
 $\partial I = ^{L}(\partial + \gamma) + ^{L}(\partial - x)$

the coordinates of point Q? (10, -5). If \overline{PQ} is a diameter of the circle, what are circle. Point P is on the circle and has coordinates In the xy-plane, the graph of the equation above is a

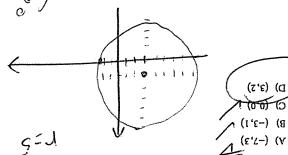
(6-'9) (CI

C) (e'-2) B) (6,-1)

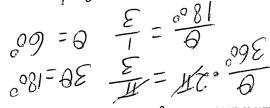
(s-'z) (v)



Points does NOT lie in the interior of the circle? $(x+3)^2 + (y-1)^2 = 25$. Which of the following A circle in the xy-plane has equation

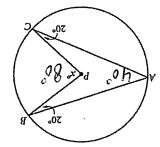


is or a solution of the circle is the length of are 30 circumference of the circle is $\overline{\rm MA}$ arc AB has length $\frac{\pi}{3}$. What fraction of the Points A and B lie on a circle with radius 1, and

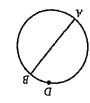


measure of $\frac{5\pi}{4}$ radians. The area of the sector (b2'19) (I) In a circle with center O, central angle AOB has a

formed by central angle AOB is what fraction of the area of the circle?



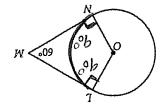
What is the value of x ? Point P is the center of the circle in the figure above.



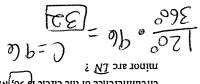
radius of the circle? length of arc \widehat{ADB} is 8π , what is the length of the In the circle above, segment AB is a diameter. If the

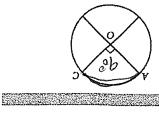
D) 19

the value of a?



circumference of the circle is 96, what is the length of segments intersect at point M as shown. If the circle at points L and N, respectively, and the circle, line segments LM and MN are tangent to the In the figure above, point O is the center of the





of 36. What is the length of minor arc AC? The circle above with center O has a circumference

and the measure of LAOB is $\frac{\pi}{a}$ radians. What is In the xy-plane above, O is the center of the circle,

(1,EV)1

x Jo sulev between 5 and 6, what is one possible integer radius 10. If the length of arc AB (shown in bold) is In the figure above, the circle has center O and has

Note: Figure not drawn to scale.

= 98° 098