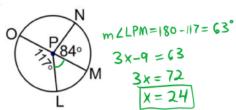
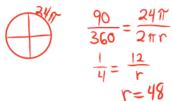
What other construction is also completed What is the value of x if m∠LPM is 3x - 9? when constructing an square inscribed in

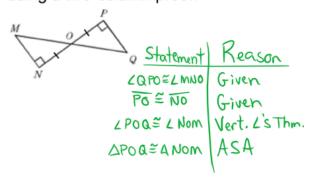
a circle? A perpendicular bisector



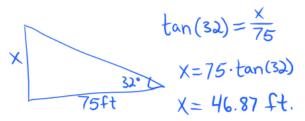
If the length of an arc created in a circle that is broken into 4 equal parts is 24π , what is the radius of the circle?



Prove that POQ is congruent to NOM using a two-column proof.

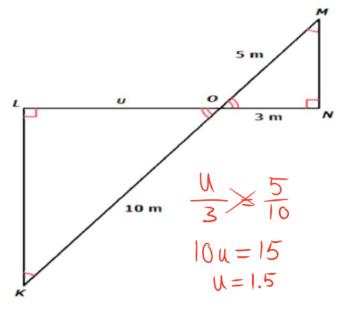


When the angle of elevation to the sun is 32° , a tree casts a shadow that is 75 feet long. What is the height of the tree to the nearest foot?

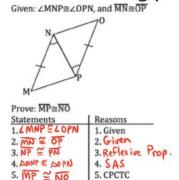


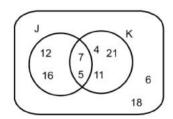
A circle has a radius formed by two points, the center at (7,6) and a point on the circle (-1,6). Write an equation for the circle.

APORE A NOM ASA Find the length of u.



Finish the following proof.





Find the following $J^{c} = \{ 4, 21, 11, 6, 18 \}$ $K = \{ 4, 21, 11, 7, 5 \}$

JUK= {12,16,7,5,4,21,11}

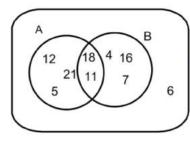
What is the probability that a male would be chosen given that it is a dog?

	Dog	Cat	Total
Male	42	10	52
Female	9	39	48
Total	51	49	100

$$P(m|d) = \frac{42}{51} = \frac{14}{17}$$

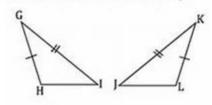
What is the probability that a person chose vanilla given that they were a child?

	Chocolate	Vanilla	Neither
Children	40	22	15
Teens	12	16	45
Adults	55	54	10
Total	107	92	70



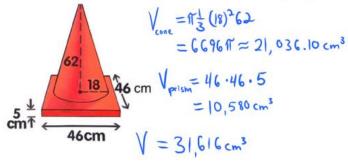
$P(V|C) = \frac{77}{77} = \frac{7}{7}$ Comple the following proof

Given: $\overline{GH} \cong \overline{KL}$, $\angle G \cong \angle K$, and $\overline{GI} \cong \overline{KJ}$

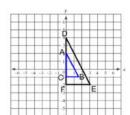


Prove: HI≅LJ	
Statements	Reasons
1. GH≅KL 2. ∠G≅LK	1. Given 2. Given
3. GI≅KJ	3. Given
4. AGHE = AKLJ	4. SAS
5. HI≅LJ	5. CPCTC

Find the volume of the following figure.

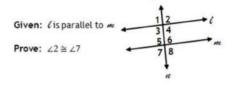


What is the sin(47) equal to?



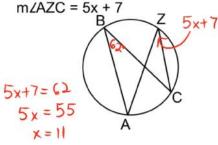
What is the scale factor if DEF is dilated to ABC?

Fill in the missing lines of this proof.

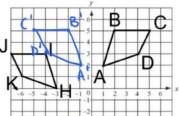


Statements	Reasons
1. \(\ell\) is parallel to \(\alpha\)	1. Given
2. ∠2 ≅ ∠6	2. Corresponding L's Post,
3. ∠6 ≅ ∠7	 Vertical angles are ≅
4. (2) = 47	 Transitive property of ≅

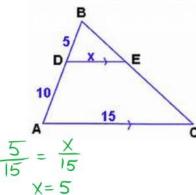
Find the value of x, if $m\angle ABC = 62$ and



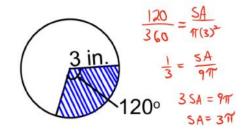
What sequence of transformations would map ABCD onto HIJK?



Find the value of x.



ABCD can be mapped to HIJK by a reflection over the y-axis with a translation left 2 and down 2. A reflection then translation is a sequence of rigid motions. Rigid motions create congruent figures thus ABCDEHIJK Find the sector area of the shaded region.



What is the equation of line perpendicular to the line y-3x = 12 and passes through point (4, 19)?

$$\sqrt{-3} \times = 12$$
 $m = -\frac{1}{3}(4,19)$
 $\sqrt{-3} \times +12$ $\sqrt{-19} = -\frac{1}{3} \times +\frac{1}{3}$
 $\sqrt{-19} = -\frac{1}{3} \times +\frac{1}{3}$
 $\sqrt{-19} = -\frac{1}{3} \times +\frac{1}{3}$

The probability of a New York teenager owning a skateboard is 0.37, of owning a bicycle is 0.81 and of owning both is 0.36. If a New York teenager is chosen at random, what is the probability that the teenager owns a skateboard or a bicycle?

$$P(S) = 0.37$$
 $P(B) = 0.81$ $P(S \text{ and } B) = 0.36$
 $P(S \circ rB) = P(S) + P(B) - P(S \text{ and } B) = 0.37 + 0.81 - 0.36 = 0.82$

Match each term with its definition.

1. Angle

A part of a line that starts at an endpoint and extends forever in one direction.

C. 2. Line segment

4. Line

3. Ray

b. A specific location in space, often represented by a dot.

A straight line which links two points without extending beyond them.

A straight pathway that is endless in both directions, has no thickness, and is comprised of

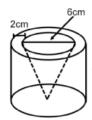
P.a figure formed by two rays with a common endpoint called a vertex.

Point A(-3,2) was transformed by a reflection over the x axis, then by (x+2, y-5). What are the new coordinates?

Reflection over x-axis

translation

Find the volume of the composite figure.



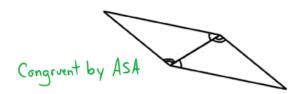
$$\sqrt{\text{cylinder}} = 15^{2} \cdot 9$$

$$= 22517 \text{ cm}^{5}$$
9cm
$$\sqrt{\text{cone}} = \frac{1}{3}17 (3)^{2} \cdot 9$$

$$= 2717 \text{ cm}^{3}$$

$$\sqrt{\text{cone}} = 22517 - 2711 = 19817 \text{ cm}^{3}$$

Why are the two triangles congruent?

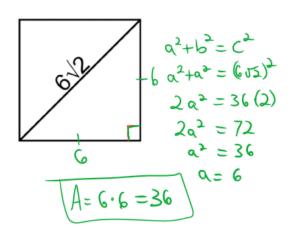


Find the area of the following square.

What is the coordinate of the point that split: segment with end points, (5, 4) and (10,14) ratio of 3:2?

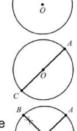
$$(\times, y) = \left(\frac{3(10) + 2(5)}{3 + 2}, \frac{3(14) + 2(4)}{3 + 2}\right)$$

$$(x,y) = (8,10)$$



What is the next step in constructing a square in a circle

1. Mark a point anywhere on the circle and label it point A.



- 2. Using a straightedge, draw a diameter from point A. Label the other endpoint of the diameter as point C. This is diameter AC.
- 3. Construct a perpendicular bisector of AC through the center of circle O. Label the points where it intersects the circle as point B and point D.