

1) The sum of the measures of the interior angles of a(n) _____

Answer →

- a) pentagon
- b) octagon

6)

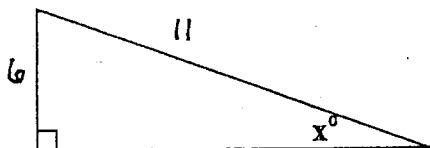
- A) The interior angle of a hexagon is:
- B) The interior angle of a decagon is:

- 2) The sum of the measure of the exterior angles of a(n) _____
- a) angle of a pentagon = _____
- b) ... an octagon = _____

7)

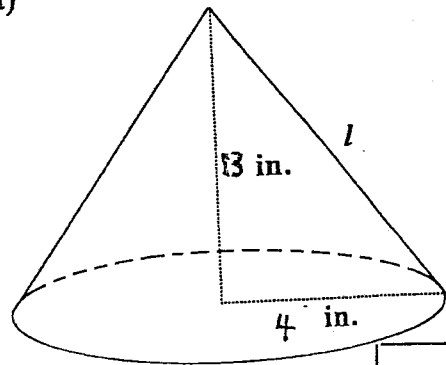
The measures of the three angles of a quadrilateral are 70° , 82° , and 90° . The measure of the fourth angle is: _____

3) Solve for x to the nearest degree. _____

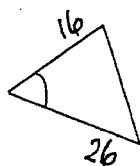
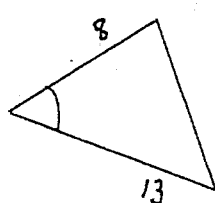


8)

A right circular cone has radius $\frac{1}{2}$ inches and height 7 inches. What is the lateral area of the cone? (Lateral area of a cone = πrl , where l = slant height)

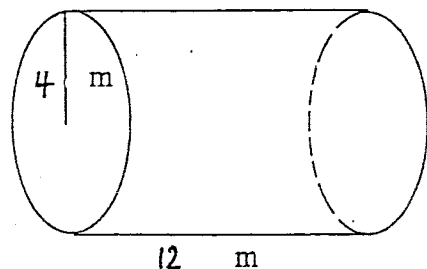


4) Shown below is an illustration of _____.



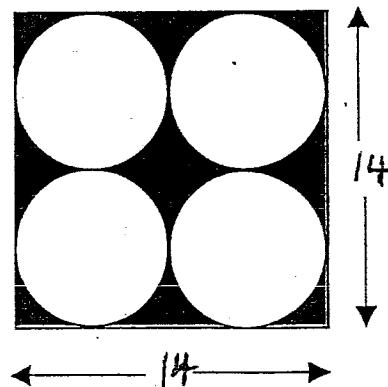
- A) SAS Similarity
- or B) SAS Congruence

5) Find the surface area of this cylinder to the nearest square unit. (Use $\pi \approx 3.14$)

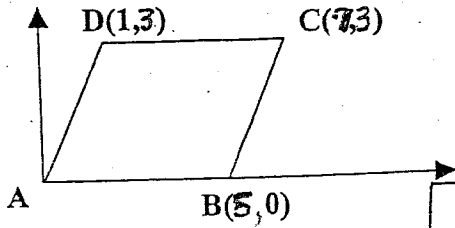


9)

What is the area of the shaded region? The four congruent circles are tangent to each other and the square



10) Figure ABCD is a rhombus, with vertices located at the coordinates shown. What is the slope of a line perpendicular to side \overline{BC} ?



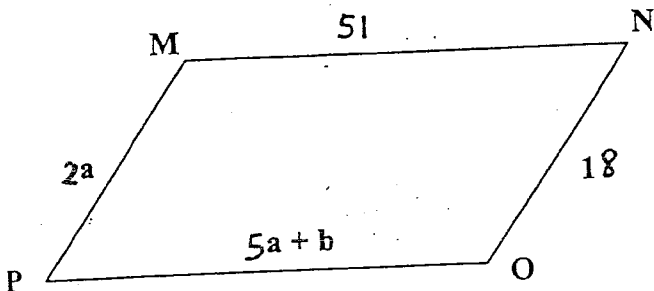
11) The ratio of the volume of two solid plastic balls is 8:27. What is the radius of the larger if the smaller has a radius of 6 cm?

12) If $\triangle ABC$ is translated 1 unit down

and 3 units to the left to create $\triangle DEF$, what are the coordinates of the vertices of $\triangle DEF$?

The vertices of $\triangle ABC$ are $A(1,3)$, $B(5,2)$ and $C(2,0)$.

13) What values of a and b make quadrilateral MNOP a parallelogram?

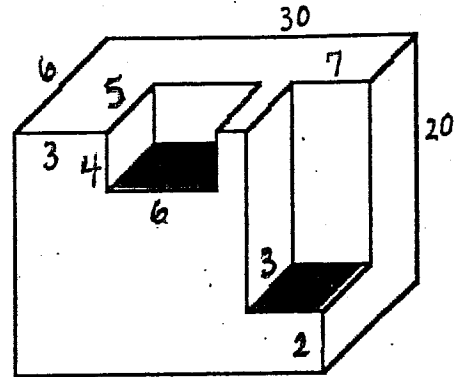


14.

A sector of a circle has a central angle of 150° . If the radius of the circle is 5 m., what is the area of the sector?

15.

What is the volume of the figure at the right? All edges are in cm.



16.

If a trapezoid has an area of 650 cm^2 and a height of 26 cm, then the Midsegment has a length of:

17

A rectangle has a height of 18 in. and an area of 234 in^2 . What is the length of the base?

18.

Find the values of x and y .

