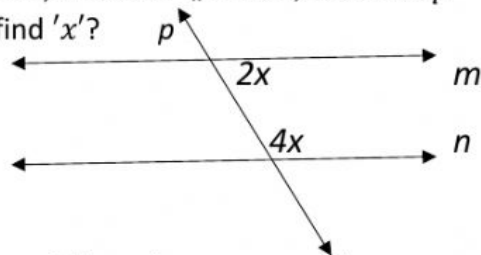


Continue from Unit test – part 1

2. In the figure given below, if *line m*  $\parallel$  *line n*, and *line p* is a transversal, then find 'x'?



Here, *line m*  $\parallel$  *line n*, and *line p* is a transversal

And given angles ' $2x$ ' and ' $4x$ ' are interior angles.

$\therefore$  by property of interior angles,

$$2x + 4x = 180^0$$

$$\therefore 6x = 180^0$$

$$\therefore x =$$

$$\therefore x =$$

3. Find the cube of 0.03.

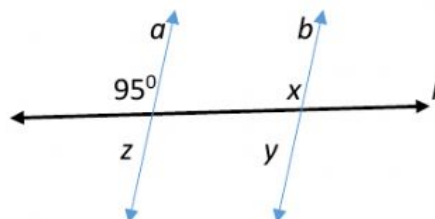
$$(0.03)^3 = \quad \text{(Multiplication form)}$$

$$(0.03)^3 = \quad \text{(Answer)}$$

Q.4 Solve the following questions.

6

1. In the figure given below, *line a*  $\parallel$  *line b*, and *line l* is a transversal, find the measures of  $\angle x$ ,  $\angle y$  and  $\angle z$  using the given information.



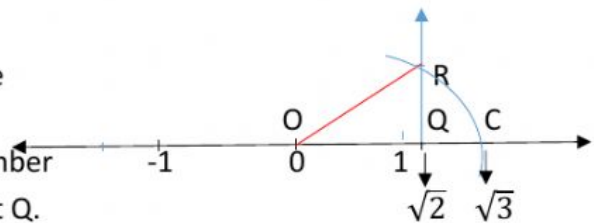
- i)  $\angle x = ?$   
 a)  $95^\circ$                       b)  $85^\circ$                       c)  $100^\circ$                       d)  $180^\circ$
- ii)  $\angle y = ?$   
 a)  $95^\circ$                       b)  $85^\circ$                       c)  $100^\circ$                       d)  $180^\circ$
- iii)  $\angle z = ?$   
 a)  $95^\circ$                       b)  $85^\circ$                       c)  $100^\circ$                       d)  $180^\circ$

2. The number  $\sqrt{2}$  is shown on a number line. Steps are given to show  $\sqrt{3}$  on the number line using  $\sqrt{2}$ . Fill in the boxes properly and complete the activity.

Activity :

- The point Q on the number line shows the number  $\sqrt{2}$
- A line perpendicular to the number line is drawn through the point Q. Point R is at unit distance from Q on the line.
- Right angled  $\Delta ORQ$  is obtained by drawing seg OR.
- $l(OQ) = \sqrt{2}, l(QR) = 1$   
 $\therefore$  by Pythagorus theorem,

$$\begin{aligned}
 [l(OR)]^2 &= [l(OQ)]^2 + [l(QR)]^2 \\
 &= (\sqrt{2})^2 + (1)^2 \\
 &= \quad + \quad \\
 &= \quad \therefore l(OR) = \sqrt{3}
 \end{aligned}$$



Draw an arc with center O and radius OR. Mark the point of intersection of the line and the arc as C. The point C shows the number  $\sqrt{3}$ .