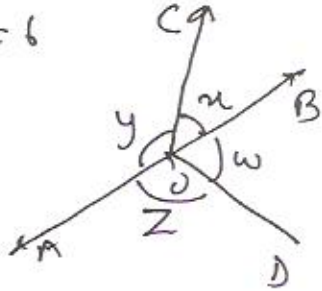


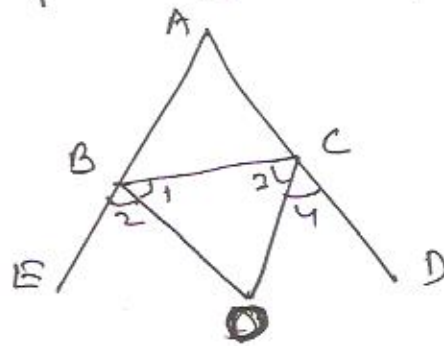
- 1) If $z = 0.064$ find $(\frac{1}{z})^{1/3}$
- 2) Plot the following points on the graph paper. A(1, -3)
B(2, 2.5), C(-3, -1) D(0, 4)
- 3) find the value of p if (2, 3) are the solutions of the equation $5x + 3py = 4x$
- 4) Three sides of a Δ are 12 cm, 16 cm and 20 cm. find its area.
- 5) factorise $8x^3 + 8y^3$
- 6) factorise $(x-2y)^3 + (2y-3z)^3 + (3z-x)^3$.
- 7) Draw the graph of $2x + 3y = 6$
- 8) In fig. $x + y = w + z$ then prove AOB is a straight line
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- 9) write $0.\overline{47} + 0.\overline{7}$ in P/Q form
- 10) Plot $\sqrt{5}$ on number line
- 11) solve for x: $\frac{3x+2}{7} + \frac{4(x+1)}{5} = \frac{2}{3}(2x+1)$
- 12) verify if $\frac{1}{2}$ and $-\frac{3}{2}$ are the zeros of the poly. $P(x) = 8x^3 - 4x^2 - 18x + 9$. if yes then factorise
- 13) factorise $x^2 + 13x^2 + 32x + 20$
- 14) find the values of a and b if
- $$\frac{\sqrt{7}+1}{\sqrt{7}-1} + \frac{\sqrt{7}-1}{\sqrt{7}+1} = a + b\sqrt{7}$$

15) If $a+b+c=6$, find the value of
 $(2-a)^3 + (2-b)^3 + (2-c)^3 - 3(2-a)(2-b)(2-c)$

16) If the poly. $2+ax-2x^2-3x^3$, is exactly divisible by $x+1$, then find the value of a .
 Hence, factorise the poly.

17) A field is in the shape of a Trapezium whose parallel sides are 25m and 10m. The non parallel sides are 14m and 13m. find the area of the field

18) In fig prove $\angle BOC = 90 - \frac{1}{2} \angle BAC$



If $\angle 1 = \angle 2$
 $\angle 3 = \angle 4$

19) which is greater $\sqrt{2}$, $\sqrt[3]{4}$ and $\sqrt[4]{5}$

20) find the coefficient of x in the expression

$$(x-3)^2$$

21) find the reflection of the point $(4, -4)$ in x -axis

22) find remainder when $x^3 + 2x^2 - 3x - 1$ is divided by $x-1$

23) find the value of $(64)^{1/2} \cdot (125)^{1/3}$

24) Simplify $\frac{3\sqrt{2}}{\sqrt{6}-\sqrt{3}} - \frac{4\sqrt{3}}{\sqrt{6}-\sqrt{2}} + \frac{2\sqrt{3}}{\sqrt{6}+2}$