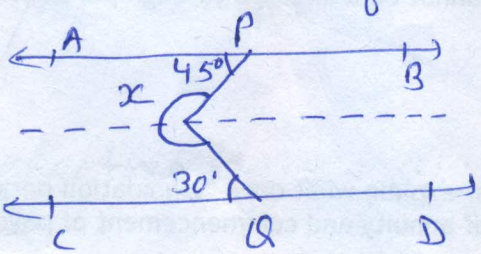
Revision Assignment
CLASS IX (MATH).

1. If $x-2$ is a factor of $x^3-3x+5a$ then find the value of 'a'
2. Find the remainder when x^3+3x^2+3x+1 is divided by $5+2x$.
3. If $a+b+c=5$ and $ab+bc+ca=10$ then prove that $a^3+b^3+c^3-3abc=-25$
4. Find the value of a and b so that the polynomial x^3-10x^2+ax+b is exactly divisible by $(x-1)$ as well as $(x-2)$
5. Without actually calculating; find the value of $(25)^3-(75)^3+(50)^3$
6. Find the value of K, if $x-1$ is a factor of $4x^3+3x^2-4x+K$
7. Factorise:-
   (i) $9x^2-12x+3$
   (ii) $16x^2+4y^2+9z^2-16xy-12yz+24xz$
   (iii) $27y^3+125z^3$
   (iv) $a^3-8b^3-64c^3-24abc$
8. A triangle and a parallelogram have the same base and same area If the sides of the traingle are 26 cm, 28 cm and 30 cm, and the parallelogram stands on the base 28 cm, find the height of parallelogram.
9. In fig. find the value of x



10. In fig PQ||ST, $\angle PQR=110°$, $\angle RST=130°$ Then find the value of $\angle QRS$.