

VIDYA BHAWAN, BALIKA VIDYAPITH

Shakti Utthan Ashram, Lakhisarai-811311(Bihar) (Affiliated to CBSE up to +2 Level)

CLASS: X

DATE: 03-06-2020

SUB.: MATHEMATICS

Q. 90% and 97%. Pure acid solutions are mixed to Obtain 21 litres of 95%. Pure acid Solution. Find the amount of each type of acid to be mixed to from the mixture. Solution: - let xlitres of 90% pure acid solution and y litres of 37% Pure acid solution be taken. Then. x litres of god. + y litres of gq. = 95% of mixtures 90x + 97Y - 95 (x+y) $\frac{-9}{100} = \frac{95x+95y}{100}$ > gox + gry = gsx + gsy > 90x-95x+97y-95y =0 - 52 + 2y = 0 - () × 1 Again x + y = 21 0×1 egn () × 1 and () × 5 end () + (1) - s/1+2y = 0 5/a + 5y = 105 77 = 105 putting the value of y in eqn (1) x+y = 21 $\Rightarrow x+15 = 21$ Hence 6 litres of 90-1. Pune acid and 15 litres of 97.1. pure acid. Aus.

Q. In Q AABC,
$$LA = x'$$
, $LB = (3x-2) and $LC = y'$
Also $LC - LB = g'$ Determine the three angles.
Solution: - We know that form of all interior angles
in a triangle is 180'
In AABC.
 $XA + (A + LC = 180')$
 $S = x + 3x - 2 + y = 180$
 $S = x + 3x - 2 + y = 180$
 $S = 4x + y = 182 - 0$
given the question
 $LC - (B = g')$
 $S = y - (3x - 2) = g'$
 $S = y - (3x - 2) = g'$
 $S = y - (3x - 2) = g'$
 $S = y - (3x - 2) = g'$
 $S = y - (3x - 2) = g'$
 $S = y - (3x - 2) = g'$
 $S = y - (3x - 2) = g'$
 $S = y - (3x - 2) = g'$
 $S = 175 = 25'$
Hence $AA = x' = 25$, $AB = 3x - 2 = 3x - 35 - 2 = 73'$
 $Ad = LC = y = 82'$
 Aus
 $S = 175 = 25'$
Hence $AA = x' = 25'$, $AB = 3x - 2 = 3x - 35 - 2 = 73'$
 $Ad = LC = y = 82'$
 Aus
 $S = 100$ your self
 S in AABC. $A = x'$, $AB = y'$ and $Z = 2y + 20'$. $S^2 = 4x - 2y = 10'$
 $S = 3LB = 2(LA + CB)$ Find the three
 $Ayles$$