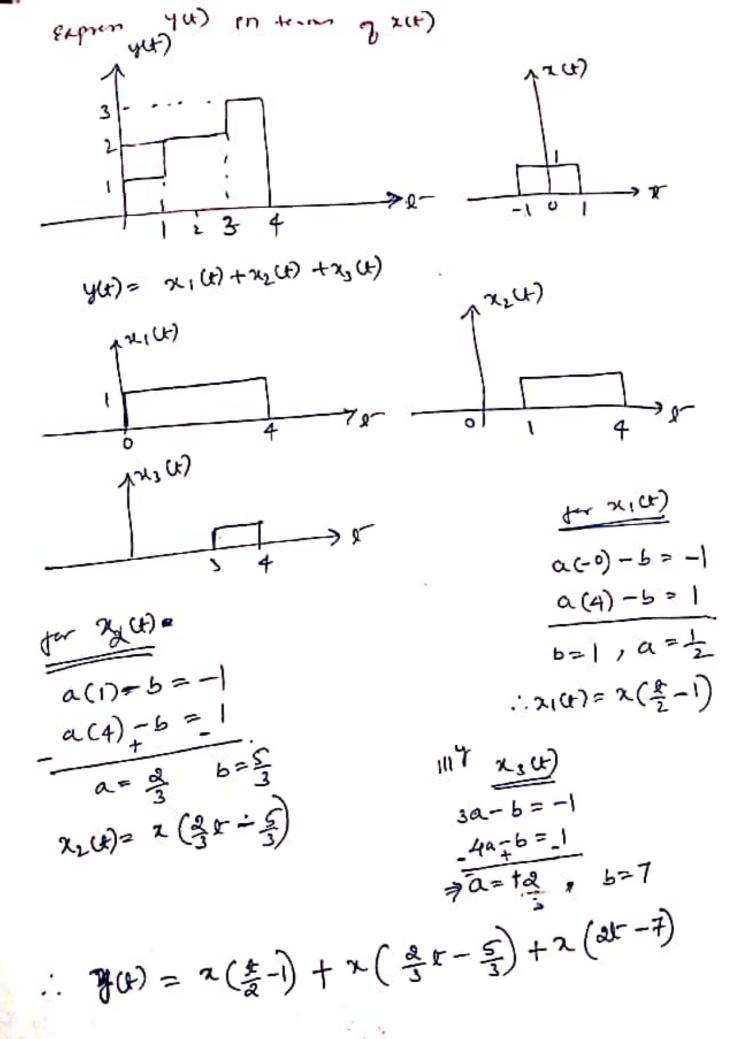
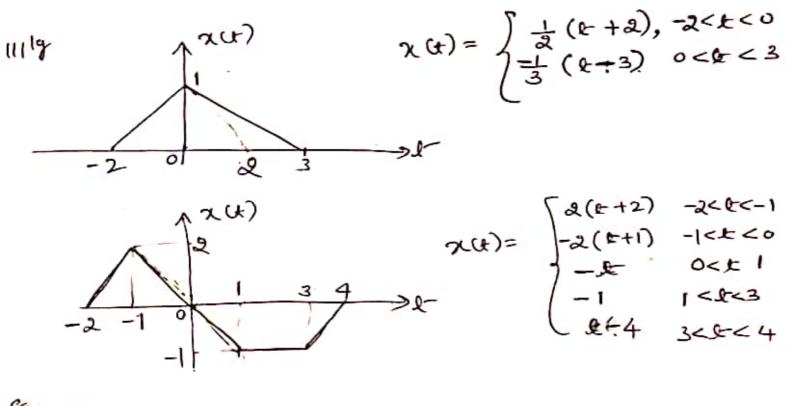
Expressing Signal in terms & basic Signals If a new signal yet) 90 obtained by shifting and saling operations of con the on a original signal. It our be represented methe medically as pollows. let 20t) be signed with duration extending from \$1 to \$2 & yer be obtained by time shyling & Salig XV) (keeping magnitude unchanged) having time very variations from 15 to 14. at3-b= t10 & at4-b= == 0 Solve () & () using known relating \$1,52, t3 6 kg 8 = \$3 a(-1)-b=-1=> -a-6=-1 a(3)-5=1=> a=1/2 & b=1/2. yu)= x( 等-声) a(-1)-b= +2 => -a-b=+2 10 a (0.5)-5 = -1 6=0

yu)= 2(-2+)



Expressing signal on mathematical form. - 1 < t < 0 . It to a roup with slope = 2 & shifted left by 1 ic r(sti) 为 2(s+1) x(1) to constant with may= 2, =7 2. It 90 8 -ve ramp with slope=1 2<5<4 Shipted to right by a with a shipted in may by a with : -r(x-2)+2. > -(x-2+2= 4-4.2+ -7(1-3) -7(1-2) -7(1-2)+2 -1<&<0 => slope x slight = &x.(+1) = &(+1) . O < F < 2 => constant with mag. = 2. => 2. 2<5<4 > slope xshipt = -1 (1-2) = 4-5 slope & -1 : It to -ve going ramp. method3 => + re ramp shipled to left by 1 with stope=2 -145<0 ⇒ 2. γ((+1) = 2((+1)) ~(-(r-4)) 2<1<4 => (70) TEA Use any method to express. Signal in mathematical form as

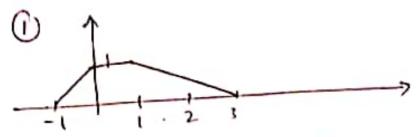
 $2 + 2 = \begin{cases} 2 + 2 & -1 < 5 < 0 \\ 2 & 0 < 2 < 2 \\ 4 - 2 & 2 < 5 < 4 \end{cases}$ 

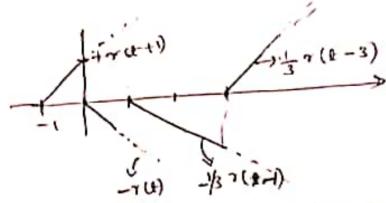


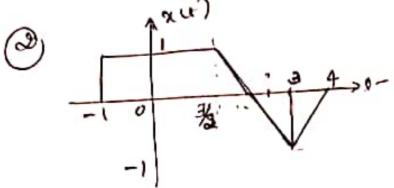
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## Exprenity signals in ten mig basic signal,

Express 87 x(1) 11 tem & basic signals







$$\chi(t) = u(t+1) - u(t-\frac{3}{2}) - \frac{a}{1.5} \gamma(t-\frac{3}{2}) + \frac{a}{1.5} \gamma(t-\frac{3}{2}) + \frac{a}{1.5} \gamma(t-\frac{3}{2}) - \gamma(t-\frac{4}{2})$$

$$\chi(r) = u(r+1) - u(r-1.5) - \frac{4}{3} r(r-\frac{3}{2})$$
  
+  $\frac{4}{3} r(r-3) + r(r-3) - r(r-4)$