## Answer on Question \#44602 - Math - Algebra

$x+y=2$
$2 y+5 z=7$
$3 x-2 z=1$

## Solution

Find $y$ from the second equation of the system:
$y=(7-5 z) / 2$
Find $x$ from the third equation of the system:
$x=(1+2 z) / 3$
Rewrite the first equation of the system:
$(1+2 z) / 3+(7-5 z) / 2=2$
Multiply left-hand and right-hand sides by 6:
$2(1+2 z)+3(7-5 z)=12$
$2+4 z+21-15 z=12$
$-11 z=-11$
$z=1$
Find $y$ from the second equation of the system:
$2 y+5=7$
$2 y=2$
$y=1$
Find $x$ from the first equation of the system:
$x+1=2$
$x=1$

Answer: $(1 ; 1 ; 1)$.

